# Air Force Munitions Facilities Standards Guide

## Volume II

*31 May 2004*

# U.S. AIR FORCE
# MUNITIONS FACILITIES
# STANDARDS GUIDE

## Volume II
## MUNITIONS FACILITIES ASSESSMENT CHECKLISTS

**31 May 2004**

**CONTRACT NUMBER:**
**F41624-00-D-8028**
**Task Order 0217**


*Prepared By:*
URS Group, Inc.
7720 North 16th Street, Suite 100
Phoenix, AZ 85020

# TABLE OF CONTENTS

INTRODUCTION

PURPOSE AND SCOPE ..... 1-1
APPROACH ..... 1-1
Maintenance Facilities ..... 1-2
Storage Facilities ..... 1-2
Transportation Facilities ..... 1-2
Administration Facilities ..... 1-2

# INTRODUCTION

## Purpose and Scope

This volume of the Munitions Guide provides a facility assessment checklist for each of the 21 Civil Engineer Real Property Category Codes (Cat Codes) identified in Volume I of this guide.

The facility assessment checklists serve multiple purposes. The checklists can be used to evaluate the condition of existing facilities and compare them against the standards contained in this document. These checklists may also be used to assist in the planning process for new construction. On the checklists, additional space is provided after each component to add items/features that may be unique to a local facility. Potential users of the assessment checklists include munitions, civil engineering, safety, and security forces agencies. The checklists are easily downloaded and provide a standardized format for munitions facilities condition assessments.

## Approach

**Assessment Checklist Application**

As a first use of these checklists, HQ USAF/ ILMW initiated a global effort in FY03 to develop a capital improvement plan to improve the overall condition of munitions support infrastructure at Air Force, Air National Guard, and Air Force Reserve Command installations worldwide.

The objective of this process is to collect data on facility conditions, assess deficiencies, and evaluate and rank local needs to assist in assigning priorities for facility requirements. Some of the elements included in the checklists are facility structure, utilities, security, pavements, and explosives safety. The list of prioritized projects will assist in the formulation of the capital improvements plan for local munitions facilities.

The sequence of checklists follows the same philosophy as Volume I. That is, the 21 Cat Codes for munitions facilities are divided into four classes. The munitions facilities in each class are listed below by Cat Code. Abbreviations and acronyms are not defined on the checklists. Please refer to Volume I, Chapter 5, “References, Forms, Abbreviations and Acronyms, and Terms.”

## Maintenance Facilities

| | |
|---|---|
| 171-875 | Munitions Loading Crew Training Facility |
| 212-212 | Missile Assembly Shop/Integrated Maintenance Facility (IMF) |
| 212-213 | Tactical Missile/Glide Weapons Maintenance Shop |
| 215-552 | Weapons and Release Systems Shop |
| 215-582 | Surveillance and Inspection Shop |
| 216-642 | Conventional Munitions Shop |
| 218-712 | Aircraft Support Equipment Shop/Storage Facility (Aerospace Ground Equipment (AGE) Facility) – Used for Munitions Support Equipment Maintenance |

## Storage Facilities

| | |
|---|---|
| 422-253 | Multi-cubicle Magazine Storage |
| 422-256 | Rocket Check Out and Assembly Storage |
| 422-257 | Segregated Magazine Storage |
| 422-258 | Above Ground Magazine Storage |
| 422-264 | Storage Igloo (Earth-covered Magazine) |
| 422-265 | Inert Spares Storage |
| 422-271 | Module Barricaded Storage |
| 422-275 | Ancillary Explosives Facility (Classification Yards, Holding Yard, Inspection Station, Interchange Yard, Loading Dock, Ready Explosives Facility, and Bomb Preload Station/Munitions Assembly Conveyor (MAC) pad) |

## Transportation Facilities

| | |
|---|---|
| 116-662 | Pad, Dangerous Cargo |
| 422-277 | Flight Line Munitions Holding Point |
| 851-147 | Roads (Streets) – Primary and Alternate Explosives Movement Routes |
| 852-261 | Vehicle Parking Operations – Used for Munitions Sub Pool Parking |
| 890-158 | Load and Unload Platform (Railhead) – Used for Munitions Operations |

## Administration Facilities

| | |
|---|---|
| 610-144 | Munitions Administration Facility |

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility provides training for munitions loading crews to acquire and maintain their required proficiency.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan or license available? | | |
| *Does the training areas' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Space Requirements.<br>*Adequate space for training aircraft and respective support equipment.<br>*Operating space to meet training needs to allow for safe clearances around aircraft during handling of munitions.<br>*Storage space for storing training aids, training munitions, and support equipment.<br>*Classroom size dependent upon number of trainees and amount of training aids required. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Apron for dock or hangar must permit safe operation of handling equipment and movement of training aircraft. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed of steel, brick, or concrete material. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Training is conducted in a classroom, outdoor covered aircraft parking area, or in a covered space such as a dock or hangar. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Facility may need high security hasps and an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 6. If applicable, provide protection from propagating explosions from the flight line. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have:<br>*Tool, supply, bench stock, and equipment room.<br>*Ready and/or training room with personnel lockers available.<br>*Latrine facilities.<br>*Minimum 1,500 SF (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Facility must have a serviceable lightning protection system as required by NFPA 780, Chapter 3. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must be constructed with DDESB approval if located within the explosives clear zone. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** Criteria: | | | 1 | 2 | 3 |

*Siting Requirements --Facility may be sited or licensed in accordance with DoD 6055.9 STD and AFMAN 91-201. Any exceptions are properly identified and risk assessments are performed.

*Inspections -- Annual weapons safety, ground safety, and facility inspections are performed.

*Windows -- Made of blast-resistant material if within the explosives clear zone.

*General -- Facility has good drainage and is vermin resistant.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 2. ***Walls:*** Criteria: | | | 1 | 2 | 3 |

*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.

*Interior -- Structural members and cross bracing are free from deterioration, adequate soundproofing insulation is installed, caulking around wall penetrations is watertight, and there are no unauthorized attachments that may compromise the design function.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete Criteria: | | | 1 | 2 | 3 |

*Free of leaks.

*Attachments are secure.

*No signs of failure, separation, or curling.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 4. ***Doors:*** Criteria: | | | 1 | 2 | 3 |

*Overhead doors raise and lower smoothly, and can be locked in place.

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental or inadvertent closing.

*Serviceable ramps to traverse hangar door thresholds available (if required).

Remarks

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy aircraft and equipment movement. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***HVAC:*** Criteria: *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

| FACILITIES INSPECTION CHECKLIST |
| --- |
| **Category Code 171-875 -- Munitions Loading Crew Training Facility** |
| Remarks |

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 8. ***Facility Electrical:*** | | | 1 | 2 | 3 |

Criteria:
*All wiring is in conduit.
*Ground devices are free of corrosion.
*Support equipment may have special electrical requirements.
*Switch box plates are water and dust tight.
*Switches are in spark-proof enclosures.
*Junction boxes are spark-proof and watertight.
*Transfer switch and breaker panels are operable.
*Generator and back-up power is available and in good repair.
*May need special power requirements for test equipment.
*Switches and breakers contain lightning arrestors and surge protectors.
*No hazardous materials [polychlorinated biphenyls (PCBs)] are present.
*Transformers are free of leaks, are closed, and are weather-proof.
*If required, appropriate surge protection devices are installed.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 9. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:
*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.
*Meters are operable.
*Piping is free of corrosion and located away from moving equipment.
*Valves and piping are free of leaks.
*Piping penetrating the facility is grounded.
*Pressure regulators are installed and operable.
*Shut-off valves are clearly marked.
*Steam and hot water lines are grounded.

Remarks

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| | | | | | |
|---|---|---|---|---|---|
| 10. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well-located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised around the facility.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch ( 812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.
*Fire extinguishers readily available.
*Flammable and combustible materials are properly stored.
*Facility is clean.

Remarks

| **III. Facility Conditions (Continued)** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 11. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:

*Cathodic Protection -- A system must be installed, corrosion free, and the sacrificial plate (anode) volume is 25% or +.
*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility must be grounded; and shut-off valves are readily accessible.
*Regulators -- Must be accessible, supported, and leak-free.
*Storage Tanks -- Must be securely anchored to their support structure, must have pressure relief valves, are protected from vehicular damage, and tank surface and connections must be free of corrosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained.
*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 13. ***Pavements:*** | | | 1 | 2 | 3 |

Criteria:

*Lighting -- Facility security lights are installed; sufficient lighting for night operations; and no burnt out lights.
*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.
*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.
*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| | | | | | |
|---|---|---|---|---|---|
| 14. ***Grounds:*** | | | 1 | 2 | 3 |

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for aircraft and equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.

*Fencing (if applicable) -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| **III. Facility Conditions (Continued)** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 15. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 16. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |

Criteria:

*LPS inspection documentation is properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Surge protection is provided.

*Meets NFPA 780, Chapter 3 (Ordinary Structures) and MIL-HDBK-419 requirements.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 17. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.

*Stairs and Ramps -- Must be illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 171-875 -- Munitions Loading Crew Training Facility

| 18. ***Unique Local Facility Features:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact:
1 - Minimal or No Impact
2 - Degraded Impact with "Work Arounds"
3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety

# FACILITIES INSPECTION CHECKLIST

## Category Code 212-212 -- Missile Assembly Shop/Integrated Maintenance Facility (IMF)

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to transfer and prepare standoff missiles for operational use, perform organizational-level maintenance involving component and subsystem replacement, and perform bench checks on certain components.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Floors must be strengthened to support missile handling trailers and associated support equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay doors and loading dock size must be commensurate with asset size and handling requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size depends on the missile systems to be handled. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Requires space for electrical power and hydraulic units. May require 400HZ, 3-phase power. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. One overhead traverse-mounted crane rated at 4,000 lbs. (1,814 kg) is required for support equipment handling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a separate utility room for low and high air pressure systems (150 and 3,500 psi (1,034 and 24,131 kPa respectively) lines for each bay), emergency power generators, and HVAC. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have drive-through work bays. *Number of bays dependent upon mission and interpretation of concurrent operations rule. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **II. Mission Design Requirements (Continued)** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Facility must have:<br>*Tool, supply, and equipment room.<br>*Ready and training room.<br>*Latrine facilities.<br>*Approximately 1,500 sq. ft. (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must have serviceable lightning protection and grounding systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Facility may need explosive-proof lighting fixtures if a Class I (explosive vapors) or Class II (explosive dust) environment is part of the mission. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 11. Facility must be able to control fuel vapor emissions. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| **III. Facility Conditions** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed.<br>*Concurrent Operations -- MAJCOM interpretation of concurrent operations rules are being followed; factors must consider whether walls protrude through ceiling.<br>*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.<br>*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*Windows -- Made of blast-resistant-material.<br>*General -- Facility has good drainage and is vermin resistant. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, and there are no unauthorized attachments that may compromise the design function.<br>*Bay walls -- 12-inch (305-mm) thick reinforced (2,500 psi) (17,237 kPa) concrete, in good condition, with no unauthorized attachments. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems are electrically bonded to the facility. *System in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories are well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support poles are in good condition and located at least 50 feet (15 m) away from *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *Substations are away from explosives operations. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices will be installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.

*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.

*Fire Alarm -- Panel is marked and accessible.

*Detectors -- Well-located and operable.

*Pull Stations -- Well-located and alarms are audible.

*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.

*Fire Drills -- Conducted at least every six months.

*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.

*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:

*Cathodic Protection -- a system is installed, corrosion free, and the sacrificial plate (anode) volume is 25 % or +.

*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility is grounded; and shut-off valves are readily accessible.

*Regulators -- are accessible, supported, and leak-free.

*Storage Tanks -- are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained.

*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and lighting is sufficient for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks, Structures, and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.

*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility are grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation is being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, have a retaining device.

*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 20. ***Hydraulic Unit:*** | | | 1 | 2 | 3 |

Criteria:

*Unit is clean.

*Electrical cables are in good repair.

*Fluid reservoir is operable.

*Hoses and fittings are in good condition.

*Service records are available and current.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 21. ***Liquid Fuel Storage and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Piping, Valves, and Fittings -- Piping outside berm area is protected; piping penetrating facility is grounded; and no leaks.

*Pumps -- Regulators installed and properly work; and maximum pressure placarded.

*Tanks -- Supported and securely anchored; contents clearly labeled; free from corrosion; fitted with liquid level gauges; have vent devices; and located in bermed area to contain contents.

*Secondary Containment -- Container is free of cracks and leaks; sufficient for volume; free of litter and other objects.

*Cathodic Protection -- Installed; free of corrosion; and sacrificial plate volume is 25% or +.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 22. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |

Criteria:

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 212-213 -- Tactical Missile/Glide Weapon Maintenance Shop

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is designed to perform missile and glide munitions assembly and disassembly inspections, testing, and repair.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. A test cell room for electrical and resistance checks of rocket motors (if required for on-hand systems). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay doors a minimum 10' H X 17' W (3 m X 5 m) and loading dock size commensurate with asset size and handling requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size depends on the missile/munitions systems to be handled. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Requires space for electrical power units and converter systems consisting of:<br>*115VAC, 60 HZ single-phase electricity.<br>*115VAC, 400 HZ, three-phase electricity. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. One overhead traverse-mounted crane rated at 4,000 lbs. (1,814 kg) is required in each bay. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a separate utility room for low and high air pressure systems (150 and 3,500 psi (1,034 and 24,131 kPa, respectively) lines for each bay) and HVAC. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have drive-through work bays.<br>*A minimum of three 30' X 50' (9 m X 15 m) bays (dependent upon mission and interpretation of concurrent operations rule).<br>*Drive-through paint booth may be required dependent on mission. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Facility must have:<br>*Tool, supply, and equipment room.<br>*Ready and training room.<br>*Latrine facilities.<br>*Approximately 1,500 sq. ft. (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must have serviceable lightning protection and grounding systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed.<br>*Concurrent Operations -- MAJCOM interpretation of concurrent operations rules are being followed; factors must consider whether walls protrude through ceiling.<br>*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.<br>*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*Windows -- Made of blast-resistant material.<br>*General -- Facility has good drainage and is vermin resistant. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations is watertight, and there are no unauthorized attachments that may compromise the design function.<br>*Bay walls -- 12-inch (305-mm) thick reinforced (2,500 psi) (1,034 kPa) concrete, in good condition, with no unauthorized attachments. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems are electrically bonded to the facility. *System in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support poles are in good condition and located at least 50 feet (15 m) away from *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *Substations are away from explosives operations. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices will be installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| 11. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.

*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.

*Fire Alarm -- Panel is marked and accessible.

*Detectors -- Well-located and operable.

*Pull Stations -- Well-located and alarms are audible.

*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.

*Fire Drills -- Conducted at least every six months.

*Vegetation Control -- Exercised within 50 feet (15m) of above-ground facilities.

*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Cathodic Protection -- A system is installed, corrosion free, and the sacrificial plate (anode) volume is 25 % of +.

*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility must be grounded; and shut-off valves are readily accessible.

*Regulators -- Are accessible, supported, and leak-free.

*Storage Tanks -- Are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained current.

*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.

*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation is being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, have a retaining device.

*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 foot-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 20. ***Hydraulic Unit:*** | | | 1 | 2 | 3 |

Criteria:

*Unit is clean.

*Electrical cables are in good repair.

*Fluid reservoir is operable.

*Hoses and fittings are in good condition.

*Service records are available and current.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 21. ***Liquid Fuel Storage and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Piping, Valves, and Fittings -- Piping outside berm area is protected; piping penetrating facility is grounded; and no leaks.

*Pumps -- Regulators installed and properly work; and maximum pressure placarded.

*Tanks -- Supported and securely anchored; contents clearly labeled; free from corrosion; fitted with liquid level gauges; have vent devices; and located in bermed area to contain contents.

*Secondary Containment -- Container free of cracks and leaks; sufficient for volume; free of litter and other objects.

*Cathodic Protection -- Installed; free of corrosion; and sacrificial plate volume is 25% or +.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 22. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |

Criteria:

Remarks

| | | |
|---|---|---|
| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |

Remarks

| | | |
|---|---|---|
| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds;

# FACILITIES INSPECTION CHECKLIST

## Category Code 215-552 -- Weapons and Release Systems Shop

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility provides space for overhaul and repair of aircraft release and gun systems.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan or license available? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Space Requirements.<br>*10,530 SF (978 m2) for single-wing aircraft not equipped w/Multiple Ejector Racks (MER).<br>*11,500 SF (1,068 m2) for single wing aircraft w/MERs.<br>*6,000 SF (557 m2) for 12 Primary Assigned Aircraft (PAA) B-52 units w/heavy adapter stores/MER beams and cluster racks.<br>*Additional 5,000 SF (464 m2) for each subsequent 12 PAA B-52 unit.<br>*5,000 SF (464 m2) for 12 PAA B-1units.<br>*Additional 3,000 SF (279 m2) for each subsequent 12 PAA B-1 tasking.<br>*6,000 SF (557 m2) storage space w/supporting office space for four people.<br>*Storage space for mobility support equipment (if applicable).<br>*Dispatch office.<br>*Gun and/or ejector cleaning room.<br>*Alternate Mission Equipment storage area.<br>*Spare gun storage.<br>*Support equipment storage area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay door size must be commensurate with the size of the support equipment, guns, and ejector racks. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. B-1 facilities.<br>*Floor must be rated at 250 psi (1,724 kPa) footprint and 50,000 lb. (22,680 kg)<br>*Bay drive-through capability with 12' X 12' (3.7 m X 3.7 m) doors. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. One monorail overhead hoist minimum 10-ton (10,160 kg) capacity.<br>*For B-52 units.<br>*For B-1 units. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Facility may need high security hasps and an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6 Electrical Power Requirements.<br>*Non-Powered Trailers -- 120 and 220VAC, 60 HZ<br>*Powered Trailers -- 120, 220, and 440 VAC (440VAC outlets copiously spaced in and around facility). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 7. Facility must have:<br>*Tool, supply, bench stock, and equipment room.<br>*Ready and/or training room with personnel lockers available.<br>*Latrine facilities.<br>*Approximately 1,500 SF (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Facility must have a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must be constructed with DDESB approval if sited. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Facility power requirements are driven by systems being worked on. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements --Facility is sited or licensed in accordance with DoD 6055.9 STD and AFMAN 91-201. Any exceptions are properly identified and risk assessments are performed.<br>*Inspections -- Annual weapons safety, ground safety, and facility inspections are performed.<br>*Windows -- Made of blast-resistant material if within the explosives clear zone.<br>*General -- Facility has good drainage and is vermin resistant.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, adequate soundproofing insulation installed, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks, and with a smooth surface to allow easy movement of equipment. *Adequate drainage with oil-water separator in maintenance work bays. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems are electrically bonded to the facility. *System is in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support equipment may have special electrical requirements. *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *May need special power requirements for test equipment. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices are installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:
*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.
*Meters are operable.
*Piping is free of corrosion and located away from moving equipment.
*Valves and piping are free of leaks.
*Piping penetrating the facility is grounded.
*Pressure regulators are installed and operable.
*Shut-off valves are clearly marked.
*Steam and hot water lines are grounded.
*Emergency eyewash and shower stations installed.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***Fire Protection/Prevention (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well-located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised around the facility.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.
*Fire extinguishers readily available.
*Flammable and combustible materials are properly stored.
*Facility is clean.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Cathodic Protection -- A system is installed, corrosion free, and the sacrificial plate (anode) volume is 25 % or +.
*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility must be grounded; and shut-off valves are readily accessible.
*Regulators -- Are accessible, supported, and leak-free.
*Storage Tanks -- Are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:
*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained current.
*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Facility security lights are installed; sufficient lighting for night operations; and no burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.

*Fencing (if applicable) -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates (if present) are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** Criteria: | | | 1 | 2 | 3 |

*Fluorescent Fixtures -- If not designed with self-locking tubes, have a retaining device.

*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 20. ***Unique Local Facility Features:*** Criteria: | | | 1 | 2 | 3 |

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 215-582 -- Surveillance and Inspection Shop

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to perform initial assembly, bench test, inspection, and minor maintenance of various conventional and nonconventional munitions and their respective components to include electro-optical and laser-guided bomb kits.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Bay doors require high security hasps and may need an intrusion detection system dependent on security category of assets being inspected. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay doors a minimum 10' H X 16' W (3 m X 4.8 m) and loading dock size commensurate with asset size and handling requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size depends on munitions systems being handled. Minimum single bay size for a fighter wing is 3,940 SF (336 m2). Bomber wings require a minimum | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Requires space for electrical power units and converter systems consisting of:<br>*115VAC, 60 HZ single-phase electricity.<br>*115VAC, 400 HZ, three-phase electricity. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. One overhead traverse-mounted crane rated at 4,000 lbs. (1,814 kg) is required. Cranes and hoists may need special safety devices for nonconventional weapons systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a separate utility room for a low air pressure system (150 psi (1,034 kPa) lines for each bay) and HVAC. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have drive-through work bays.<br>*Number of bays dependent upon mission and interpretation of concurrent operations rule.<br>*Drive-through paint booth may be required dependent on mission. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Facility must have:<br>*Tool, supply, and equipment room.<br>*Ready and training room.<br>*Latrine facilities.<br>*Approximately 1,500 sq. ft. (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must have serviceable lightning protection and grounding systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Facility may need explosive-proof lighting fixtures if a Class I (explosive vapors) or Class II (explosive dust) environment is part of the mission. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed.<br>*Concurrent Operations -- MAJCOM interpretation of concurrent operations rules are being followed; factors must consider whether walls protrude through ceiling.<br>*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.<br>*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*Windows -- Made of blast-resistant material.<br>*General -- Facility has good drainage and is vermin resistant. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.<br>*Bay walls -- 12-inch (305-mm) thick reinforced (2,500 psi) (17,236 kPa) concrete, in good condition, with no unauthorized attachments. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems are electrically bonded to the facility. *System in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support poles are in good condition and located at least 50 feet (15 m) away from facilities. *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *Substations are away from explosives operations. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices will be installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| 11. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.

*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.

*Fire Alarm -- Panel is marked and accessible.

*Detectors -- Well-located and operable.

*Pull Stations -- Well-located and alarms are audible.

*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.

*Fire Drills -- Conducted at least every six months.

*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.

*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Cathodic Protection -- a system must be installed, corrosion free, and the sacrificial plate (anode) volume is 25 % or +.

*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility are grounded; and shut-off valves are readily accessible.

*Regulators --are accessible, supported, and leak-free.

*Storage Tanks -- are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained current.

*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.

*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation is being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, have a retaining device.

*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| 20. ***Hydraulic Unit:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Unit is clean.

*Electrical cables are in good repair.

*Fluid reservoir is operable.

*Hoses and fittings are in good condition.

*Service records are available and current.

Remarks

| 21. ***Liquid Fuel Storage and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Piping, Valves, and Fittings -- Piping outside berm area is protected; piping penetrating facility is grounded; and no leaks.

*Pumps -- Regulators installed and properly work; and maximum pressure placarded.

*Tanks -- Supported and securely anchored; contents clearly labeled; free from corrosion; fitted with liquid level gauges; have vent devices; and located in bermed area to contain contents.

*Secondary Containment -- Container free of cracks and leaks; sufficient for volume; free of litter and other objects.

*Cathodic Protection -- Installed; free of corrosion; and sacrificial plate volume is 25% or +.

Remarks

| 22. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 216-642 -- Conventional Munitions Shop

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility accommodates munitions assembly/disassembly, corrosion control, time compliance technical order completion, and repair on various munitions components and containers.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Bay doors require high security hasps on bays if an intrusion detection system is being utilized. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay doors a minimum 10' H X 16' W (3m X 4.9 m) and loading dock size commensurate with asset size and handling requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size depends on the munitions systems to be handled. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Requires space for electrical power units and converter systems consisting of:<br>*115VAC, 60 HZ single-phase electricity.<br>*220VAC, 60 HZ, three-phase electricity (if applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. One overhead traverse-mounted crane rated at 4,000 lbs. (1,814 kg) is required. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a separate utility room for low air pressure system (150 psi (1,034 kPa) lines for each bay) and HVAC. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have drive-through work bays.<br>*A minimum of three 30' X 50' (9 m X 15 m) bays (dependent upon mission and interpretation of concurrent operations rule).<br>*Drive-through paint booth may be required dependent on mission. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Facility must have:<br>*Tool, supply, and equipment room.<br>*Ready and training room.<br>*Latrine facilities.<br>*Approximately 1,500 sq. ft. (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Facility must have serviceable lightning protection and grounding systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed.<br>*Concurrent Operations -- MAJCOM interpretation of concurrent operations rules are being followed; factors must consider whether walls protrude through ceiling.<br>*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.<br>*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*Windows -- Made of blast-resistant material.<br>*General -- Facility has good drainage and is vermin resistant. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.<br>*Bay walls -- 12-inch (305-mm) thick reinforced (2,500 psi) (17,236 kPa) concrete, in good condition, with no unauthorized attachments. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems are electrically bonded to the facility. *System is in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories are well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support poles are in good condition and located at least 50' (15 m) away from facilities. *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *Substations are away from explosives operations. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices will be installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.

*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.

*Fire Alarm -- Panel is marked and accessible.

*Detectors -- Well-located and operable.

*Pull Stations -- Well-located and alarms are audible.

*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.

*Fire Drills -- Conducted at least every six months.

*Vegetation Control -- Exercised within 50' (15 m) of above-ground facilities.

*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:

*Cathodic Protection -- A system is installed, corrosion free, and the sacrificial plate (anode) volume is 25 % or +.

*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility is grounded; and shut-off valves are readily accessible.

*Regulators -- Are accessible, supported, and leak-free.

*Storage Tanks -- Are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained current.

*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks, Structures, and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.

*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** Criteria: | | | 1 | 2 | 3 |

*Fluorescent Fixtures -- If not designed with self-locking tubes, must a retaining device.
*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.
*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.
*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.
*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.
*No burnt out bulbs.

Remarks

| 20. ***Unique Local Facility Features:*** Criteria | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 218-712 -- Aircraft Support Equipment Shop/Storage Facility [Aerospace Ground Equipment (AGE) Facility] -- Used for Munitions Support Equipment Maintenance

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to inspect, maintain, repair, and service assigned powered and non-powered Munitions Materiel Handling Equipment (MMHE).

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available if the facility is located within the explosives clear zone arc? | | |
| *Do the bays' size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Proper ventilation and exhaust systems installed and functional in administrative office area and maintenance work bays. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay door size must be commensurate with the size of the support equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size depends on the amount of assigned support equipment. Refer to AFH 32-1084, Table 7.9, for space requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. For powered munitions trailers, an additional 230 SF(21 m2) is authorized for each additional trailer stored indoors. (Consult the MAJCOM CE and Munitions functionals for indoor trailer storage requirements.) | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. One overhead hoist:<br>*For Powered trailers -- Minimum 10-ton (10,160 kg) capacity.<br>*For Non-powered Trailers -- Minimum 5-ton (5,080 kg) capacity. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a separate utility room for low air pressure system (120 psi (827 kPa) lines for each bay) and HVAC. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility must have drive-through work bays with adjacent work benches.<br>*Number of bays dependent upon mission and number of assigned trailers. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Electrical Power Requirements.<br>*Non-Powered Trailers -- 120 and 220VAC, 60 HZ.<br>*Powered trailers -- 120, 220, and 440 VAC (440VAC outlets copiously spaced in and around facility). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **II. Mission Design Requirements (Continued)** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 9. Facility must have:<br>*Tool, supply, bench stock, and equipment room.<br>*Ready and/or training room with personnel lockers available.<br>*Latrine facilities.<br>*Approximately 1,500 SF (139 m2) administrative area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Facility must have serviceable lightning protection system as per NFPA 780, Chapter 3 (Ordinary Structures). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 11. If facility is located within the explosives clear zone, facility must be constructed with DDESB approval since it would be considered an exposed site. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 12. Wash Rack (Indoor or Outdoor).<br>*Equipped with hot and cold running water.<br>*Has floor drainage with an oil-water separator.<br>*Has power receptacles and compressed air.<br>*Complies with OSHA, EPA, and state environmental control measures. | | | | | |
| Remarks | | | | | |

| **III. Facility Conditions** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- If required, facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201. Any exceptions are properly identified and risk assessments are performed.<br>*Inspections -- Annual ground safety and facility inspections are performed.<br>*Windows -- Made of blast-resistant material if within the explosives clear zone.<br>*General -- Facility has good drainage and is vermin resistant. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Walls:***<br>Criteria:<br>*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.<br>*Interior -- Structural members and cross bracing are free from deterioration, adequate soundproofing insulation installed, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete<br>Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure, separation, or curling. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Doors:***<br>Criteria:<br>*Overhead doors raise and lower smoothly, and can be locked in place.<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental or inadvertent closing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. *Adequate drainage with oil-water separator in maintenance work bays. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling*** : Criteria: *No visible damage, watermarks, or sagging. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Hoist and Lifting Crane:*** Criteria: *Permanently mounted systems will be electrically bonded to the facility. *System is in good repair. *Certification and proof-load records are up-to-date. *Traverse movement is smooth and unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***HVAC:*** Criteria: *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. *Wiring is in conduits and insulation is intact. *Electrical control and switchgear is properly tagged, labeled, and housed. *Filters are clean. *Stand-alone equipment (boiler and chiller units) is well maintained. *Start/stop control switch is properly mounted. *Damper controls and motors are in good working order. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Facility Electrical:*** Criteria: *All wiring is in conduit. *Ground devices are free of corrosion. *Support equipment may have special electrical requirements. *Switch box plates are water and dust tight. *Switches are in spark-proof enclosures. *Junction boxes are spark-proof and watertight. *Transfer switch and breaker panels are operable. *Generator and back-up power is available and in good repair. *May need explosive-proof fixtures. *Switches and breakers contain lightning arrestors. *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. *Transformers are free of leaks, are closed, and are weather-proof. *If required, appropriate surge protection devices are installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |

Criteria:
*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.
*Meters are operable.
*Piping is free of corrosion and located away from moving equipment.
*Valves and piping are free of leaks.
*Piping penetrating the facility is grounded.
*Pressure regulators are installed and operable.
*Shut-off valves are clearly marked.
*Steam and hot water lines are grounded.
*Emergency eyewash and shower stations installed.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |

Criteria:
*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well-located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised around the facility.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.
*Fire extinguishers readily available.
*Flammable and combustible materials are properly stored.
*Facility is clean.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Natural Gas Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Cathodic Protection -- A system must be installed, corrosion free, and the sacrificial plate (anode) volume is 25% or +.
*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility are grounded; and shut-off valves are readily accessible.
*Regulators -- Are accessible, supported, and leak-free.
*Storage Tanks -- Are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 13. ***Central Steam / Hot Water Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:
*Heating Water Treatment -- Filters are properly installed and water-conditioning equipment is maintained current.
*Steam/Hot Water Generation -- Temperature and cooling controls are operable; pressure valve is operable; lines are anchored; and system provides sufficient quantities.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 14. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 15. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations; and no burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 16. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.

*Fencing (if applicable) -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 17. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 18. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 19. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.

*Stairs and Ramps -- Must be illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| 20. ***Hydraulic Unit (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Unit is clean.

*Electrical cables are in good repair.

*Fluid reservoir is operable.

*Hoses and fittings are in good condition.

*Service records are available and current.

Remarks

| 21. ***Liquid Fuel Storage and Distribution (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Piping, Valves, and Fittings -- Piping outside berm area is protected; piping penetrating facility is grounded; and no leaks.

*Pumps -- Regulators installed and properly work; and maximum pressure placarded.

*Tanks -- Supported and securely anchored; contents clearly labeled; free from corrosion; fitted with liquid level gauges; have vent devices; and located in bermed area to contain contents.

*Secondary Containment -- Container free of cracks and leaks; sufficient for volume; free of litter and other objects.

*Cathodic Protection -- Installed; free of corrosion; and sacrificial plate volume is 25% or +.

Remarks

| 22. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-253 -- Multi-cubicle Magazine Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to store small quantities of explosives. Facilities are ideal for segregating compatibility groups and storing munitions assets belonging to custody accounts.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the multi-cubicle magazine size and shape meet mission needs? | | |
| *Does the facility user have the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Constructed of concrete. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Doors are made of steel and are the hinged, roll-up, or rolling type. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Facility requires a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility may require HVAC for climate control. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Doors must have high-security hasps. May need an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Apron in front of door must permit safe operation of handling equipment. | | | 1 | 2 | 3 |

Remarks

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Individual cells -- If 12-inch (305-mm) reinforced concrete substantial dividing walls or equivalent protection is used, up to 425 lbs. (193 kg) of 1.1 munitions may be stored in each bay without totaling up the NEW of the entire facility or requiring compatibility with the adjoining cells. Store munitions a minimum of 3 feet (.9 m) from any dividing wall (see AFMAN 91-201).

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Placards -- Explosives limits and fire/chemical symbols are displayed. Signs may be posted on the individual doors.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| 2. ***Barricade Walls (if applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Must meet "2 degree" rule.

*Top of barricade wall must be at least 3 feet ( .9 m) wide.

*No substantial erosion.

Remarks

| 3. ***Roof:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Free of leaks.

*Attachments are secure.

*No signs of failure.

Remarks

| 4. ***Walls:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Exterior -- Clean; free from damage; intact; paint and caulking in good condition.

*Interior -- Surfaces clean, intact, and free from damage; no unauthorized attachments that may compromise the design function; and caulking around wall penetrations watertight.

Remarks

| 5. ***Doors:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental closing.

*Serviceable ramps to traverse thresholds (If required).

*Roll-up doors must raise and lower smoothly.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 6. ***Floors:*** | | | 1 | 3 | 3 |
| Criteria:<br>*Concrete is in good condition without cracks and with a smooth surface to allow easy equipment movement. | | | | | |
| Remarks | | | | | |
| 7. ***Ceiling:*** | | | 1 | 2 | 3 |
| Criteria:<br>*No visible damage or watermarks.<br>*No obvious hazards to personnel on the floor. | | | | | |
| Remarks | | | | | |
| 8. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Fire Drills -- Conducted at least every six months.<br>*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.<br>*Fire extinguishers are available during operations.<br>*Facility is kept clean and free of combustible materials.<br>*Flammables and combustibles are not stored in close proximity to the facility. | | | | | |
| Remarks | | | | | |
| 9. ***Pavements:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.<br>*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.<br>*Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment.<br>*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage. | | | | | |
| Remarks | | | | | |
| 10. ***Grounds:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Pads -- Pads are in good repair; and pads are sufficiently sized for equipment.<br>*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.<br>*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.<br>*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 11. ***HVAC:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.<br>*Central equipment is clean and well maintained.<br>*Wiring is in conduits and insulation is intact. | | | | | |
| Remarks | | | | | |
| 12. ***Facility Electrical:*** | | | 1 | 2 | 3 |
| Criteria:<br>*All wiring is in conduit.<br>*Ground devices are free of corrosion.<br>*Support poles are in good condition and located at least 50' (15 m) away from facilities.<br>*Switch box plates are water and dust tight.<br>*Switches are in spark-proof enclosures.<br>*Junction boxes are spark-proof and watertight.<br>*Switches and breakers contain lightning arrestors. | | | | | |
| Remarks | | | | | |
| 13. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
| Criteria:<br>*LPS inspection documentation being properly maintained.<br>*An LPS is Installed -- System features include air terminals and low impedance paths to ground.<br>*Meets NFPA 780 and MIL-HDBK-419 requirements. | | | | | |
| Remarks | | | | | |
| 14. ***Lighting:*** | | | 1 | 2 | 3 |
| Criteria:<br>*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.<br>*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.<br>*No burnt out bulbs. | | | | | |
| Remarks | | | | | |
| 15 ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
| Criteria:<br>*<br>*<br>* | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-256 -- Rocket Check Out and Assembly Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is unique in that it serves as an operating location to accommodate the assembly, disassembly, and electrical check out of rockets as well as providing a site to store built-up rockets. Since the advent of the MK 66 rocket, electrical continuity checks of rocket motors is rare. The facility is now often used for other operations (e.g., flare and chaff buildup, argon recharging, etc.).

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan or license available? | | |
| *Do the facility's size and shape meet mission needs? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Bay doors require high security hasps. An intrusion detection system may be required. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Bay doors must be a minimum of 3/8 inch (19 mm) thick steel. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Facility size is 11,160 SF (1,037 m2) but may vary dependent on the weapons being used. Size includes field office area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. 12-inch (305-mm) thick reinforced concrete walls must be present so the rockets can face the walls during maintenance operations and storage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Constructed with approval of the DDESB. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility must have serviceable lightning protection and grounding systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** Criteria: | | | 1 | 2 | 3 |

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed. See AFMAN 91-201 for special guidance on ES and PES categorization.

*Facilities Located Outside the MSA -- Has an approved license.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*Concurrent Operations -- MAJCOM interpretation of concurrent operations rules are being followed; factors must consider whether walls protrude through ceiling.

*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.

*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.

*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.

*Smoking prohibited within 50 feet (15 m) of explosives.

*Windows -- Made of blast-resistant material.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| 2. ***Walls:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.

*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.

*Bay walls -- 12-inch (305-mm) thick reinforced (2,500 psi) (17,236 kPa) concrete, in good condition, with no unauthorized attachments.

Remarks

| 3. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Free of leaks.

*Attachments are secure.

*No signs of failure, separation, or curling.

Remarks

| 4. ***Doors:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Doors swing freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental or inadvertent closing.

Remarks

| 5. ***Floors:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement.

Remarks

| 6. ***Ceiling*** : Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*No visible damage, watermarks, or sagging.

*No obvious hazards to personnel on the floor.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 7. ***HVAC:*** | | | 1 | 2 | 3 |

Criteria:

*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.

*Central equipment (heat exchangers, pumps, and fans) is clean and well maintained.

*Wiring is in conduits and insulation is intact.

*Electrical control and switchgear is properly tagged, labeled, and housed.

*Filters are clean.

*Stand-alone equipment (boiler and chiller units) is well maintained.

*Start/stop control switch is properly mounted.

*Damper controls and motors are in good working order.

Remarks

| 8. ***Facility Electrical:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*All wiring is in conduit.

*Ground devices are free of corrosion.

*Support poles are in good condition and located at least 50 feet (15 m) away from facilities.

*Switch box plates are water and dust tight.

*Switches are in spark-proof enclosures.

*Junction boxes are spark-proof and watertight.

*Transfer switch and breaker panels are operable.

*Substations are away from explosives operations.

*Switches and breakers contain lightning arrestors and surge protection.

*No hazardous materials [polychlorinated biphenyls (PCBs)] are present.

*Transformers are free of leaks, are closed, and are weather-proof.

Remarks

| 9. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.

*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.

*Fire Alarm -- Panel is marked and accessible.

*Detectors -- Well-located and operable.

*Pull Stations -- Well-located and alarms are audible.

*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.

*Fire Drills -- Conducted at least every six months.

*White Phosphorous (WP) -- A water supply (e.g., barrel) and a safety kit containing flame-proof gloves, face shield, and skin covering, must be available when handling unpackaged WP items.

*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.

*Emergency Evacuation -- A minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Compressed Air Generation and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Pipes, Valves, and Fittings -- Piping is located below grade; cathodic protection is installed; and valves, dehydrators, and meters are operable.

*Compressors -- Tank and accessories are secured; foundation is paved or padded; data plate is legible; and pressure regulators and release valves are operable.

Remarks

| 11. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| 12. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 13. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.

*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing.

Remarks

| 14. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 15. ***Installed Support Equipment:*** | | | 1 | 2 | 3 |

Criteria:

*Storage Racks -- Are securely affixed to the facility..

*Assembly Stands -- Are secured to the facility or workbench and must be grounded.

Remarks

| 16. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| 17. ***Lighting:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.

*Ramps -- Are illuminated with at least 5 foot-candles (54 meter-candles) of light.

*General Illumination Guidelines -- Detailed work may require 100 foot-candles (1,076 meter-candles) . Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.

*No burnt out bulbs.

Remarks

| 18. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-257 -- Segregated Magazine Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to store small quantities of explosives. Facilities are ideal for segregating compatibility groups and storing munitions assets belonging to custody accounts.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the magazine size and shape meet mission needs? | | |
| *Does the facility user have the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Constructed of concrete. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Doors are made of steel and are the hinged, roll-up, or rolling type. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Facility requires a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility may require HVAC for climate control. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Doors must have high-security hasps. May need an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Apron in front of door must permit safe operation of handling equipment. | | | 1 | 2 | 3 |

Remarks

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Individual cells -- If 12-inch (305-mm) reinforced concrete substantial dividing walls or equivalent protection is used, up to 425 lbs. (195 kg) of 1.1 munitions may be stored in each bay without totaling up the NEW of the entire facility or requiring compatibility with the adjoining cells. Store munitions a minimum of 3 feet (.9 m) from any dividing wall (see AFMAN 91-201).

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 2. ***Barricade Walls (if applicable):*** | | | 1 | 2 | 3 |

Criteria:

*Meets "2 degree" rule.

*Top of barricade wall are at least 3 feet (.9 m) wide.

*No substantial erosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 3. ***Roof:*** | | | 1 | 2 | 3 |

Criteria:

*Free of leaks.

*Attachments are secure.

*No signs of failure.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 4. ***Walls:*** | | | 1 | 2 | 3 |

Criteria:

*Exterior -- Clean; free from damage; intact; paint and caulking in good condition.

*Interior -- Surfaces clean, intact, and free from damage; no unauthorized attachments that may compromise the design function; and caulking around wall penetrations watertight.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 5. ***Doors:*** | | | 1 | 2 | 3 |

Criteria:

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental closing.

*Serviceable ramps to traverse thresholds (If required).

*Roll-up doors must raise and lower smoothly.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 6. ***Floors:*** | | | 1 | 3 | 3 |
| Criteria:<br>*Concrete is in good condition without cracks and with a smooth surface to allow easy equipment movement. | | | | | |
| Remarks | | | | | |
| 7. ***Ceiling:*** | | | 1 | 2 | 3 |
| Criteria:<br>*No visible damage or watermarks.<br>*No obvious hazards to personnel on the floor. | | | | | |
| Remarks | | | | | |
| 8. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Fire Drills -- Conducted at least every six months.<br>*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.<br>*Fire extinguishers are available during operations.<br>*Facility is kept clean and free of combustible materials.<br>*Flammables and combustibles are not stored in close proximity to the facility. | | | | | |
| Remarks | | | | | |
| 9. ***Pavements:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.<br>*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.<br>*Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment.<br>*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage. | | | | | |
| Remarks | | | | | |
| 10. ***Grounds:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Pads -- Pads are in good repair; and pads are sufficiently sized for equipment.<br>*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.<br>*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.<br>*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 11. ***HVAC:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.<br>*Central equipment is clean and well maintained.<br>*Wiring is in conduits and insulation is intact. | | | | | |
| Remarks | | | | | |
| 12. ***Facility Electrical:*** | | | 1 | 2 | 3 |
| Criteria:<br>*All wiring is in conduit.<br>*Ground devices are free of corrosion.<br>*Support poles are in good condition and located at least 50' (15 m)away from facilities.<br>*Switch box plates are water and dust tight.<br>*Switches are in spark-proof enclosures.<br>*Junction boxes are spark-proof and watertight.<br>*Switches and breakers contain lightning arrestors. | | | | | |
| Remarks | | | | | |
| 13. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
| Criteria:<br>*LPS inspection documentation being properly maintained.<br>*An LPS is Installed -- System features include air terminals and low impedance paths to ground.<br>*Meets NFPA 780 and MIL-HDBK-419 requirements. | | | | | |
| Remarks | | | | | |
| 14. ***Lighting:*** | | | 1 | 2 | 3 |
| Criteria:<br>*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.<br>*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.<br>*No burnt out bulbs. | | | | | |
| Remarks | | | | | |
| 15 ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-258 -- Above Ground Magazine Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | Unit POC | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to store all types of explosives.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the igloo size and shape meet mission needs? | | |
| *Does the facility user have the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Constructed of various non-combustible materials (e.g., steel, concrete, clay tile, sheet metal, etc.). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Doors are made of steel and be hinged, sliding, or roll-up type. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Provides limited protection from propagating explosions to/from adjacent storage sites and operating locations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility may require HVAC for climate control. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Doors must have high-security hasps. May need an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 9. Apron in front of door must permit safe operation of handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.

*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 2. ***Barricade Walls (if applicable):*** | | | 1 | 2 | 3 |

Criteria:

*Meets "2 degree" rule.

*Top of barricade wall is at least 3 ft. (.9 m) wide.

*No substantial erosion.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 3. ***Roof:*** (Circle One) Rolled Metal Shingle Frangible Gravel Concrete | | | 1 | 2 | 3 |

Criteria:

*Earth-covering at least 24 in. (609 mm) deep (if applicable).

*No excessive erosion (if earth-covered).

*Free of leaks.

*Attachments are secure.

*No signs of failure.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 4. ***Walls:*** | | | 1 | 2 | 3 |

Criteria:

*Exterior -- Clean; free from damage; intact; paint and caulking in good condition.

*Interior -- Surfaces clean, intact, and free from damage; no unauthorized attachments that may compromise the design function; and caulking around wall penetrations watertight.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 5. ***Doors:*** | | | 1 | 2 | 3 |

Criteria:

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental closing.

*Serviceable ramps to traverse thresholds (If required).

*Overhead doors must raise and lower smoothly.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 6. ***Floors:*** | | | 1 | 3 | 3 |
| Criteria:<br>*Concrete is in good condition without cracks and with a smooth surface to allow easy equipment movement. | | | | | |
| Remarks | | | | | |
| 7. ***Ceiling:*** | | | 1 | 2 | 3 |
| Criteria:<br>*No visible damage or watermarks.<br>*No obvious hazards to personnel on the floor. | | | | | |
| Remarks | | | | | |
| 8. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Fire Drills -- Conducted at least every six months.<br>*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities and within 5 feet (1.5 m) of ventilators.<br>*Fire extinguishers are available during operations.<br>*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.<br>*Facility is kept clean and free of combustible materials.<br>*Flammables and combustibles are not stored in close proximity to the facility.<br>*Ventilator fusible links are serviceable. | | | | | |
| Remarks | | | | | |
| 9. ***Pavements:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.<br>*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.<br>*Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment.<br>*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage. | | | | | |
| Remarks | | | | | |
| 10. ***Grounds:*** | | | 1 | 2 | 3 |
| Criteria:<br>Miscellaneous Pads -- Pads are in good repair; and pads are sufficiently sized for equipment.<br>*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.<br>*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.<br>*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 11. ***HVAC:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. | | | | | |
| Remarks | | | | | |
| 12. ***Facility Electrical:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *All wiring is in conduit. | | | | | |
| *Ground devices are free of corrosion. | | | | | |
| *Support poles are in good condition and located at least 50 feet (15 m) away from facilities. | | | | | |
| *Switch box plates are water and dust tight. | | | | | |
| *Switches are in spark-proof enclosures. | | | | | |
| *Junction boxes are spark-proof and watertight. | | | | | |
| *Switches and breakers contain lightning arrestors. | | | | | |
| *If required, appropriate surge protection devices will be installed. | | | | | |
| Remarks | | | | | |
| 13. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *LPS inspection documentation being properly maintained. | | | | | |
| *An LPS is Installed -- System features include air terminals and low impedance paths to ground. | | | | | |
| *Meets NFPA 780 and MIL-HDBK-419 requirements. | | | | | |
| Remarks | | | | | |
| 14. ***Lighting:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available. | | | | | |
| *Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting. | | | | | |
| *No burnt out bulbs. | | | | | |
| Remarks | | | | | |
| 15. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-264 -- Storage Igloo

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to store all types of explosives. It is the preferred structure for storing mass-detonating explosives.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the igloo size and shape meet mission needs? | | |
| *Does the facility user have the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Constructed of steel or concrete arch. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Doors are made of heavy blast-resistant steel. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. (Typical size is 26' X 80' of 7.9 m X 24.3 m). . | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Must provide protection from propagating explosions to/from adjacent storage sites and operating locations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility may require HVAC for climate control. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Doors must have high-security hasps. May need an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 9. Apron in front of door must permit safe operation of handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.

*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| 2. ***Barricade Walls (if applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Meets "2 degree" rule.

*Top of barricade wall is at least 3 feet (.9 m) wide.

*No substantial erosion.

Remarks

| 3. ***Roof:*** (Circle One) Steel Concrete | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Earth-covering at least 24 inches (609 mm) deep.

*No excessive erosion.

*Free of leaks.

*Attachments are secure.

*No signs of failure.

Remarks

| 4. ***Walls:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Front wall -- Clean; free from damage; and intact.

*Minimum 24 inches (609 mm ) earth-covering on rear and side walls.

*Interior -- Surfaces clean, intact, and free from damage; no unauthorized attachments that may compromise the design function; and caulking around wall penetrations watertight.

Remarks

| 5. ***Doors:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental closing.

*Serviceable ramps to traverse thresholds (if required).

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 6. ***Floors:*** Criteria: *Concrete is in good condition without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 3 | 3 |
| Remarks | | | | | |
| 7. ***Ceiling:*** Criteria: *No visible damage or watermarks. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***Fire Protection/Prevention:*** Criteria: *Fire Drills -- Conducted at least every six months. *Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities and within 5 feet (1.5 m) of ventilators. *Fire extinguishers are available during operations. *Facility is kept clean and free of combustible materials. *Flammables and combustibles are not stored in close proximity to the facility. *Ventilator fusible links are serviceable. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Pavements:*** Criteria: *Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights. *Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width. *Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment. *Drainage -- Structures are sound and maintained; and areas are free of debris and blockage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. ***Grounds:*** Criteria: *Miscellaneous Pads -- Pads are in good repair; and pads are sufficiently sized for equipment. *Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards. *Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion. *Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 11. ***HVAC:*** | | | 1 | 2 | 3 |

Criteria:
*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.

Remarks

| 12. ***Facility Electrical:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*All wiring is in conduit.
*Ground devices are free of corrosion.
*Support poles are in good condition and located at least 50 feet (15 m) away from facilities.
*Switch box plates are water and dust tight.
*Switches are in spark-proof enclosures.
*Junction boxes are spark-proof and watertight.
*Switches and breakers contain lightning arrestors.
*If required, appropriate surge protection devices are installed.

Remarks

| 13. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*LPS inspection documentation being properly maintained.
*An LPS is Installed -- System features include air terminals and low impedance paths to ground.
*LPS components are grounded and all metallic penetrations are bonded.
*Side-flash protection is provided through separation.
*Surge protection is provided.
*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| 14. ***Lighting:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.
*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.
*No burnt out bulbs.

Remarks

| 15. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-265 -- Inert Spares Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility is used to store all types of inert munitions components.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility size and shape meet mission needs? | | |
| *Does the facility user have the site plan available (if applicable)? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Constructed of various non-combustible materials (e.g., steel, concrete, clay tile, sheet metal, etc.). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Doors vary in size and are made of steel and be hinged, sliding, or roll-up type. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB if within the explosives clear zone. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Provides limited protection from propagating explosions from adjacent storage sites and operating locations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a serviceable lightning protection system if it is determined the safety of the personnel and value of the facility and/or stored assets warrant it. (See NFPA 780, Chapter 3, Ordinary Structures) | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Facility may require HVAC for climate control. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Doors may have high-security hasps depending on contents. May need an intrusion detection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 9. Apron in front of door must permit safe operation of handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Facility must be identified as a warehouse to store accountable munitions components. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Siting Requirements -- Facility is sited as an exposed site if within the explosives clear zone as per DoD 6055.9 STD and AFMAN 91-<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed (as required).<br>*General -- Facility has good drainage and is vermin resistant. | | | | | |
| Remarks | | | | | |
| 2. ***Roof:*** (Circle One) Rolled Metal Shingle Frangible Gravel Concrete | | | 1 | 2 | 3 |
| Criteria:<br>*Free of leaks.<br>*Attachments are secure.<br>*No signs of failure. | | | | | |
| Remarks | | | | | |
| 3. ***Walls:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Exterior -- Clean; free from damage; intact; paint and caulking in good condition.<br>*Interior -- Surfaces clean, intact, and free from damage; no unauthorized attachments that may compromise the design function; and caulking around wall penetrations watertight. | | | | | |
| Remarks | | | | | |
| 4. ***Doors:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Doors swing/roll freely and fit in jambs.<br>*Locks and security hasps are in good condition.<br>*Safety mechanisms are in place to prevent accidental closing.<br>*Serviceable ramps to traverse thresholds (If required).<br>*Overhead doors must raise and lower smoothly. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** Criteria: *Concrete is in good condition without cracks and with a smooth surface to allow easy equipment movement. | | | 1 | 3 | 3 |
| Remarks | | | | | |
| 6. ***Ceiling:*** Criteria: *No visible damage or watermarks. *No obvious hazards to personnel on the floor. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Fire Protection/Prevention:*** Criteria: *Fire Drills -- Conducted at least every six months. *Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities. *Fire extinguishers are available during operations. *Facility is kept clean and free of combustible materials. *Flammables and combustibles are properly stored in the facility. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***Pavements:*** Criteria: *Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights. *Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width. *Parking -- Properly sited; sufficient room to maneuver; and type of pavement supports gross weight of assigned equipment. *Drainage -- Structures are sound and maintained; and areas are free of debris and blockage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. ***Grounds:*** Criteria: *Miscellaneous Pads -- Pads are in good repair; and pads are sufficiently sized for equipment. *Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards. *Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion. *Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***HVAC:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. | | | | | |
| Remarks | | | | | |
| 11. ***Facility Electrical:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *All wiring is in conduits. | | | | | |
| *Ground devices are free of corrosion. | | | | | |
| *Switch box plates are water and dust tight. | | | | | |
| *Junction boxes are watertight. | | | | | |
| *Switches and breakers contain lightning arrestors. | | | | | |
| *If required, appropriate surge protection devices will be installed. | | | | | |
| Remarks | | | | | |
| 12. ***Lightning Protection System (LPS) Installed (if applicable):*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *LPS inspection documentation being properly maintained. | | | | | |
| *An LPS is Installed -- System features include air terminals and low impedance paths to ground. | | | | | |
| *Surge protection is provided. | | | | | |
| *Meets NFPA 780, Chapter 3 (Ordinary Structures), and MIL-HDBK-419 requirements. | | | | | |
| Remarks | | | | | |
| 13. ***Lighting:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available. | | | | | |
| *Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting. | | | | | |
| *No burnt out bulbs. | | | | | |
| Remarks | | | | | |
| 14 ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-271 -- Module Barricaded Storage

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This facility provides field storage of large quantities of explosives in minimum land areas where earth-covered magazines do not exist. Outdoor storage is considered a temporary expedient measure and is not preferred for munitions.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does the facility user have the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Barricade walls constructed of non-fragmenting materials (typically soil with no large rocks or debris in it). May have a non-combustible lightweight shed or roof covering. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Pads may be asphalt, concrete, rock, AM-2 matting or packed soil. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Constructed with approval of the DDESB and the responsible MAJCOM. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Must provide protection from propagating explosions to/from adjacent storage sites and operating locations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Facility requires a serviceable lightning protection system. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** Criteria: | | | 1 | 2 | 3 |

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*General -- Facility has good drainage.

Remarks

| 2. ***Barricade Walls:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Meets "2 degree" rule.

*Top of barricade wall is at least 3 feet (.9 m) wide.

*No substantial erosion.

Remarks

| 3. ***Roof:*** (Circle One) Metal Rolled Frangible Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Free of leaks.

*Attachments are secure.

*No signs of failure, separation, or curling.

Remarks

| 4. ***Fire Protection/Prevention:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Fire Drills -- Conducted at least every six months.

*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.

*Fire extinguishers are available during operations.

*Facility is kept clean and free of combustible materials.

*Flammables and combustibles are not stored in close proximity to the facility.

Remarks

| 5. ***Pavements:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

*Pad permits uninhibited stacking of assets and use of handling equipment.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 6. ***Grounds:*** Criteria: | | | 1 | 2 | 3 |

*Miscellaneous Pads -- Pads are in good repair; adequate drainage is available; and pads are sufficiently sized for equipment.
*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.
*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.
*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 7. ***Lightning Protection System (LPS) Installed:*** Criteria: | | | 1 | 2 | 3 |

*LPS inspection documentation being properly maintained.
*An LPS is Installed -- System features include air terminals and low impedance paths to ground.
*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 8. ***Lighting:*** Criteria: | | | 1 | 2 | 3 |

*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.
*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.
*No burnt out bulbs.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 9. ***Unique Local Facility Features:*** Criteria: | | | 1 | 2 | 3 |

Remarks

| | | |
|---|---|---|
| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |

Remarks

| | | |
|---|---|---|
| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-275 -- Ancillary Explosives Facility

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** This designation is applicable to pads, locations, revetments, and other facilities (excluding aircraft parking). Facilities included are rail classification yards, holding yards, inspection stations, interchange yards, loading docks, ready explosives facilities, and bomb preload stations. The facility Is primarily used for holding, inspecting, temporarily storing, transferring, or loading munitions in the transportation or handling mode.

**Note:** The quantity and type of ancillary explosives facilities required will vary with the following conditions:
- Operational mission requirements; number and type of functions, operations, or special munitions activities.
- Type and quality of munitions to be stored or handled; war reserve materiel (WRM) munitions, operating and training munitions, combat munitions, and special activities as area reserve storage/redistribution/munitions airlift.
- Site characteristics; physical limits, expansion capabilities, type, and arrangement of existing facilities, and objectives of the base master plan.
-Type of proposed storage structures required or preferred.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Do the systems and sub-systems operate as designed? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Does the facility's shape and size meet mission needs? | | |
| *Does the facility user have a copy of the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |
| *Does the facility meet Q-D and facility guide line requirements? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| **a. *General Requirements*** | Meets | Doesn't Meet | | | |
| 1. Overhead cover may be required to protect personnel from the sun and other elements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Fencing may be required based upon security needs and location of assets. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Ground surfaces may require paving or other hardened surface (AM-2 matting, stone, etc.) as warranted by traffic and operational requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 4. Barricades may be required based upon the location, quantity, and class of explosives involved. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Access roads may be required. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Lightning protection is required. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Paved surfaces are sufficient to handle traffic volume, and vehicle and munitions materiel handling equipment turning radii and gross weights. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **b. *Classification Yard Requirements* (used for receiving, dispatching and switching rail cars containing explosives)** | | | | | |
| 1. Rail trackage will have standard gauge, clearance, and weight as required by interstate/host nation regulations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Amount of rail trackage dependent upon volume of traffic. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Rail trackage will connect with the common carrier delivering shipments to the base. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Rails and related track material must be bonded, grounded, and insulated from the remaining track. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Tracks should be looped to permit two ways to exit. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 6. Vegetation control is strictly enforced along trackage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Intermagazine quantity-distance criteria applies between other PESs and the classification yard. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **c. *Holding Yard Requirements* (area used to hold explosives-laden carriers for limited periods -- may contain rail cars, ISO containers, or trucks)** | | | | | |
| 1. Sited as above-ground magazines. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Area size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Rail trackage will have standard gauge, clearance, and weight as required by interstate/host nation regulations (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Rails and related track material must be bonded, grounded, and insulated from the remaining track (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Tracks should be looped to permit two ways to exit (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Vegetation control is strictly enforced along trackage (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 7. If designated as a Secure Holding Area as per the Defense Transportation Regulation, Chapter 205, it must comply with DoD 5100.76M:<br>*Access control.<br>*Perimeter fencing.<br>*Automatically-timed lighting positioned to not expose/silhouette guards and extend 25 feet (7.6 m) beyond the secure holding area.<br>*Barriers at entry control points.<br>*Emergency communications to include a duress system to notify law enforcement personnel.<br>*Primary and emergency power that starts automatically when primary power fails.<br>*IDS or CCTV if guard does not have direct visual observation of the area.<br>*Warning signs posted every 100 feet (30 m). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **d. *Inspection Station Requirements* (used to accommodate trucks or rail cars during the time incoming vehicles and their explosives cargo are inspected)** | | | | | |
| 1. Quantity-distance criteria does not apply if solely used as an inspection station. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Located as remote as possible from hazardous areas such as POL sites, populated areas, flightlines, and other explosives. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Area size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Rail trackage will have standard gauge, clearance, and weight as required by interstate/host nation regulations (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Rails and related track material must be bonded, grounded, and insulated from the remaining track (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Tracks should be looped to permit two ways to exit (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 7. Vegetation control is strictly enforced along trackage (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **e. *Interchange Yard Requirements* (used for the interchange of explosives-laden trucks, trailers, or rail cars between the common carrier and DoD activities)** | | | | | |
| 1. Quantity-distance criteria does not apply if the exchange is made and the vehicle/railcars are moved promptly. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Located as remote as possible from hazardous areas such as POL sites, populated areas, flightlines, and other explosives. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. May be located together with the Inspection Station. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Area size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Rail trackage will have standard gauge, clearance, and weight as required by interstate/host nation regulations (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Rails and related track material must be bonded, grounded, and insulated from the remaining track (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Tracks should be looped to permit two ways to exit (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Vegetation control is strictly enforced along trackage (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **f. *Loading Dock Requirements* (ground-level or elevated structure used for transferring explosives between any two modes of transportation)** | | | | | |
| 1. Site the loading dock as an operating location if used to transfer munitions between transportation modes. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Loading docks used to support multiple storage or operating locations are considered above-ground magazines for quantity-distance purposes. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Quantity-distance criteria does not apply to loading docks used to support a single PES. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Area size dependent upon mission needs. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Rail trackage will have standard gauge, clearance, and weight as required by interstate/host nation regulations (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Rails and related track material must be bonded, grounded, and insulated from the remaining track (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Tracks should be looped to permit two ways to exit (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Vegetation control is strictly enforced along trackage (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **g. *Ready Explosives Facility Requirements* (facility or designated area, usually near the flightline, where munitions and components are temporarily positioned awaiting transfer to aircraft--may be used for combat aircraft or as a cargo marshalling area)** | | | | | |
| 1. Site the ready explosives facility as an above-ground magazine. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| **h. *Bomb Preload Station Requirements* (Munitions Assembly Conveyor -- consists of equipment such as gantries and conveyors used to inspect, assemble, and load bombs on ejection racks--equipment configuration dependent upon mission)** | | | | | |
| 1. Site the bomb preload station as an operating location. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. All electrical equipment installed and maintained in accordance with explosives safety requirements. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. On-site safety placarding safety information is provided and is legible. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| III. Facility Conditions<br>a. *General* | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:***<br>Criteria:<br>*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in place. Any exceptions are properly identified and risk assessments are performed.<br>*Placards -- Explosives limits and fire/chemical symbols are displayed.<br>*Inspections -- Annual ground and explosives safety and facility inspections are performed.<br>*Grounding -- A means to dissipate static electricity buildup (as applicable); static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.<br>*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.<br>*Wiring -- Wires to structures are underground at least 50 feet ( 15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.<br>*Windows -- Made of blast-resistant material.<br>*Smoking prohibited within 50 feet (15 m) of explosives.<br>*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.<br>*General -- Facility has good drainage. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 2. ***Barricade Walls (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Meets "2-degree" rule.
*Top of barricade wall is at least 3 (.9) feet wide.
*No substantial erosion

Remarks

| 3. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities and along rail trackage.
*Fire extinguishers are available during operations.
*Facility is kept clean and free of combustible materials.
*Flammables and combustibles are not stored in close proximity to the facility.

Remarks

| 4. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.
*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.
*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.
*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.
*Pad -- Permits uninhibited stacking of assets and use of handling equipment.

Remarks

| 5. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Miscellaneous Pads -- Pads are in good repair; adequate drainage is available; and pads are sufficiently sized for equipment.
*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.
*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.
*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing.

Remarks

| 6. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*LPS inspection documentation being properly maintained as per AFI 32-1065.
*An LPS is Installed -- System features include air terminals, masts, and catenaries for low impedance paths to ground.
*LPS components are grounded and all metallic penetrations are bonded.
*Side-flash protection is provided through separation.
*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 7. ***Lighting:*** | | | 1 | 2 | 3 |

Criteria:
*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.
*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.
*No burnt out bulbs.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 8. ***Roof (as applicable):*** (Circle one) Metal Rolled Frangible Concrete | | | 1 | 2 | 3 |

Criteria:
*Free of leaks.
*Attachments are secure.
*No signs of failure, separation, or curling.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| **b.** ***Classification Yard:*** | | | 1 | 2 | 3 |

Criteria:
*Track in alignment and true to grade.
*Ties in good condition and firmly set in ballast.
*Ballast is clean and well compacted.
*All connectors are present and tight.
*Track switches operable and well maintained.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| **c.** ***Holding Yard (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Track in alignment and true to grade.
*Ties in good condition and firmly set in ballast.
*Ballast is clean and well compacted.
*Track switches operable and well maintained.
*All connectors are present and tight.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| **d.** ***Inspection Station (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Track in alignment and true to grade.
*Ties in good condition and firmly set in ballast.
*Ballast is clean and well compacted.
*All connectors are present and tight.
*Track switches operable and well maintained.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| **e. *Interchange Yard (as applicable):*** | | | 1 | 2 | 3 |
| Criteria:<br>*Track in alignment and true to grade.<br>*Ties in good condition and firmly set in ballast.<br>*Ballast is clean and well compacted.<br>*All connectors are present and tight.<br>*Track switches operable and well maintained. | | | | | |
| Remarks | | | | | |
| **f. *Loading Dock:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Foundation in good condition, free of cracks.<br>*Ramp is constructed at safe grade.<br>*Edges are sound and intact; no crumbling.<br>*Dock plates/ramp extensions operable.<br>*Bumpers are securely fastened and in good repair.<br>*Safety markings are visible and clean.<br>*Dock is adequate width to permit maneuvering of loading equipment. | | | | | |
| Remarks | | | | | |
| **g. *Ready Explosives Facility:*** | | | 1 | 2 | 3 |
| Criteria:<br>*Use General Criteria in section IIIa (above). | | | | | |
| Remarks | | | | | |
| **h. *Bomb Preload Station (Munitions Assembly Conveyor):*** | | | 1 | 2 | 3 |
| Criteria:<br>*All gantries and conveyors are functioning properly.<br>*Facility electrical.<br>**All wiring is in conduit.<br>**Ground devices are free of corrosion.<br>**Support poles are in good condition and located at least 50 feet (15 m) away<br>**Switch box plates are water and dust tight.<br>**Switches are in spark-proof enclosures.<br>**Junction boxes are spark-proof and watertight.<br>**Transfer switch and breaker panels are operable.<br>**Generator and back-up power is available and in good repair.<br>**Substations are away from explosives operations.<br>**Switches and breakers contain lightning arrestors.<br>**No hazardous materials [polychlorinated biphenyls (PCBs)] are present.<br>**Transformers are free of leaks, are closed, and are weather-proof.<br>**If required, appropriate surge protection devices will be installed.<br>**Energy management and controls transfer switches operable and waterproof, breaker panels operable and waterproof or dustproof, automatic controls operable, grounded, and well maintained, and battery charger operable and protected from weather. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| i. ***Unique Local Facility Features:*** Criteria | | | 1 | 2 | 3 |

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 116-662 -- Pad, Dangerous Cargo

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** The dangerous cargo pad, commonly referred to as a "hot cargo pad," is used to frequently load and unload explosives and other dangerous materials on cargo aircraft where existing aprons cannot be used without violating Q-D safety criteria. The pad is also used to park explosives-laden cargo aircraft and is considered to be an above-ground magazine for Q-D calculation purposes.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code?<br>*Are there any safety or security write-ups on the facility from the latest inspections?<br>*Does location of facility detract from mission performance?<br>*Does the size and shape of the pad meet mission needs?<br>*Are there any outstanding AF Forms 332?<br>*Does the facility user have the site plan available?<br>*Does the facility design allow for known future mission changes?<br>*Does the facility meet Q-D and facility guide line requirements? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Locate the pad to satisfy Q-D safety criteria as per AFMAN 91-201 and DoD STD 6055.9. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Use medium-load pavement for the pad and its access taxiway. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Aircraft tiedown anchors installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Provide blue, flush-type, taxiway lights on the edge of the pads as per AFI 32-1044 and AFMAN 32-1076. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Aircraft and munitions load handling equipment grounding points provided. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Category code 116-642, Paved Shoulders, are authorized (minimum 25 feet (7.6 m) and up to 50 feet (15 m) for C-5, E-4, and Boeing 747 aircraft). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Provide revetments if required by Q-D safety criteria or if use results in a net reduction in construction and land acquisition costs. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **II. Mission Design Requirements (Continued)** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. If installation supports other than an aerial port of embarkation/debarkation (APOE/APOD), a circular pad with a 110 foor (35.5 m) radius (4.225 sq. yds. (3,533 m2)) is authorized. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. APOE/APODs that store or process in-transit explosives require two pads to accommodate C-141, C-5, C-17, and Boeing 747 aircraft (additional pads may be required if there is a high volume of activity). The area for each pad is 8,900 sq. yds (7,442 m2). Each pad can be sited for up to 30,000 pounds (13,610 kg) net explosives weight of hazard class/division 1.1 munitions. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Provide a means to post applicable safety placarding. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| **III. Facility Conditions** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** Criteria: *Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed. *Placards -- Explosives limits and fire/chemical symbols are displayed. *Inspections -- Annual ground and explosives safety and facility inspections are performed. *Grounding -- A means to dissipate static electricity buildup for the cargo aircraft and munitions (as required); static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065. *Lighting -- UL-approved lights are acceptable for this environment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Barricade Walls (as applicable):*** Criteria: *Meets "2-degree" rule. *Top of barricade wall is at least 3 feet (.9 m) wide. *No substantial erosion. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Fire Protection/Prevention:*** Criteria: *Fire Drills -- Conducted at least every six months. *Vegetation Control -- Exercised within 50 feet (15 m) of aboveground facilities. *Fire extinguishers are available during operations. *Pad is kept clean and free of combustible materials. *Flammables and combustibles are not stored in close proximity to the pad. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 4. ***Pavements:*** | | | 1 | 2 | 3 |

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. Lighting must not impact pilot safety. No burnt out lights.

*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.

*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; and adequate spaces.

*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

*Pad permits uninhibited stacking of assets and use of handling equipment.

*Pavement markings are legible.

*Surfaces are smooth and even, and allow for easy movement of equipment, aircraft, and munitions.

Remarks

| 5. ***Grounds (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Miscellaneous Pads -- Pads are in good repair; adequate drainage is available; and pads are sufficiently sized for equipment.

*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.

*Erosion Control -- Area is free of erosion with suitable vegetation to help prevent erosion.

Remarks

| 6. ***Lighting:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*General Illumination Guidelines -- Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting in proximity of aircraft.

*No burnt out bulbs.

Remarks

| 7. ***Revetments:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*In good order to protect personnel and adjacent aircraft.

*Surface free of erosion, corrosion, or other degradation.

Remarks

| 8. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

# FACILITIES INSPECTION CHECKLIST

## Category Code 422-277 -- Flight Line Munitions Holding Point

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** A flight line munitions holding point is used to accumulate a limited quantity (not to exceed one day's supply) of assembled munitions at an assembly point for subsequent delivery to aircraft on the flight line. This operating concept is optional based upon local capabilities and mission requirements.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any open AF Forms 332? | | |
| *Are there any existing safety or security discrepancies on the holding area? | | |
| *Does the facility's shape and size meet mission needs? | | |
| *Does the facility user have a copy of the site plan available? | | |
| *Does location of facility detract from mission performance? | | |
| *Does the facility design allow for known future mission changes? | | |
| *Does the facility meet Q-D and facility guide requirements? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact* | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Fenced pad. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Signs posted to keep out unauthorized personnel. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Signs posted to prohibit smoking within 50 feet (15 m) of the holding point. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Explosives limits posted. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Capability to post fire/chemical symbols. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Fire extinguishers are provided. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Area can be secured in accordance with AFI 31-101. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| II. Mission Design Requirements (Continued) | Design Requirements | | Mission Impact* | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 8. Electrical utilities have the required separation from the holding area. (Distances are dependent upon amount of voltage the lines carry and functions the lines support.) | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9. Pad size of sufficient size to accommodate unit's daily munitions requirements and allow for safe movement of munitions materiel handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 10. Area lighting of sufficient intensity to permit night operations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 11. Sufficient grounding points available to attach grounding cables for ammunition loading systems. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 12. An electrical, motor-driven rail access gate for vehicle access remotely controlled from the personnel shelter. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 13. A second, manually-operated gate for drive-through capability. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 14. Personnel shelter large enough to hold the assigned personnel with a bay window overlooking entire fenced area and entrance. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 15. Lightning protection provided (unless interferes with safety-of-flight operations). | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*Grounding -- A means to dissipate static electricity buildup from personnel and ammunition loading systems is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.

*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.

*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.

*Site is free of electromagnetic radiation.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Smoking prohibited within 50 feet (15 m) of explosives.

*Windows -- Made of blast-resistant material.

*General -- Facility has good drainage and is vermin resistant.

*Pad is sited so forward firing munitions are headed in direction of least populated area and mission-critical assets.

Remarks

| 2. ***Walls (in personnel shelter):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.

*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.

Remarks

| 3. ***Roof (on personnel shelter): (*** Circle One) Shingle Metal Gravel Rolled Frangible Concrete | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Free of leaks.

*Attachments are secure.

*No signs of failure, separation, or curling.

Remarks

| 4. ***Doors (in personnel shelter):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Overhead doors raise and lower smoothly, and can be locked in place.

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental or inadvertent closing.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Ceiling (in personnel shelter)***: | | | 1 | 2 | 3 |
| Criteria:<br>*No visible damage, watermarks, or sagging.<br>*No obvious hazards to personnel on the floor. | | | | | |
| Remarks | | | | | |
| 6. ***HVAC (in personnel shelter as applicable):*** | | | 1 | 2 | 3 |
| Criteria:<br>*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.<br>*Central equipment (heat exchangers, pumps, and fans) is clean and well maintained.<br>*Wiring is in conduits and insulation is intact.<br>*Electrical control and switchgear is properly tagged, labeled, and housed.<br>*Filters are clean.<br>*Stand-alone equipment (boiler and chiller units) is well maintained.<br>*Start/stop control switch is properly mounted.<br>*Damper controls and motors are in good working order. | | | | | |
| Remarks | | | | | |
| 7. ***Facility Electrical (in personnel shelter):*** | | | 1 | 2 | 3 |
| Criteria:<br>*All wiring is in conduit.<br>*Ground devices are free of corrosion.<br>*Support poles are in good condition and located at least 50 feet (15 m) away from facilities.<br>*Switch box plates are water and dust tight.<br>*Switches are in spark-proof enclosures.<br>*Junction boxes are spark-proof and watertight.<br>*Transfer switch and breaker panels are operable.<br>*Generator and back-up power is available and in good repair.<br>*Substations are away from explosives operations.<br>*Switches and breakers contain lightning arrestors.<br>*No hazardous materials [polychlorinated biphenyls (PCBs)] are present.<br>*Transformers are free of leaks, are closed, and are weather-proof.<br>*If required, appropriate surge protection devices will be installed.<br>*Energy management and controls transfer switches operable and waterproof; breaker panels operable and waterproof or dustproof; automatic controls operable, grounded, and well maintained, and battery charger operable and protected from weather. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 8. ***Plumbing and Mechanical Systems (in personnel shelter as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.
*Meters are operable.
*Piping is free of corrosion and located away from moving equipment.
*Valves and piping are free of leaks.
*Piping penetrating the facility is grounded.
*Pressure regulators are installed and operable.
*Shut-off valves are clearly marked.
*Steam and hot water lines are grounded.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 9. ***Fire Protection/Prevention (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*Fire Extinguishers -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812 mm) wide outward-opening doors with panic hardware within 75 feet (23 m) for emergency evacuation.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 10. ***Pavements:*** | | | 1 | 2 | 3 |

Criteria:
*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.
*Roads -- Pavement is structurally sound and supports explosives-laden vehicles and munitions materiel handling equipment weights; drainage is sufficient; markings are legible; and is sufficient in width.
*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***Grounds:*** | | | 1 | 2 | 3 |

Criteria:
*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.
*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.
*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.
*Fencing -- Security fencing is installed and is in good repair; and vegetation is controlled around fencing.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 12. ***Water Supply and Distribution (in personnel shelter):*** | | | 1 | 2 | 3 |

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.

*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility are grounded.

*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.

*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 13. ***Communications (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria

*Equipment location is clearly marked and visible.

*Equipment is operable and in well maintained enclosure.

*Equipment located in waterproof and dustproof enclosure.

Remarks

| 14. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals, masts, and overhead wires that provide a low impedance path to ground.

*LPS components are grounded and all metallic penetrations are bonded.

*Side-flash protection is provided through separation.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| 15. ***Lighting:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.

*Stairs and Ramps -- Are illuminated with at least 5 foot-candles (54 foot-candles) of light.

*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 foot-candles) of light while detailed work may require 100 foot-candles (1,076 foot-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.

*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.

*No burnt out bulbs.

Remarks

| 16 ***Revetments (as applicable).:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

*Installed and in good order to protect personnel and adjacent aircraft.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **III. Facility Conditions (Continued)** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 17. ***Unique Local Facility Features:*** Criteria | | | 1 | 2 | 3 |

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 851-147 - Road (Street) -- Used for Explosives Movement Routes

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number N/A |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage N/A | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** Although not an actual facility, the purpose of an explosives movement routes are to safely support all phases of explosives movements on an installation by avoiding populated areas and mission-critical facilities and equipment. The installation determines the routes and explosives limits for movements outside the munitions storage area (MSA) and publishes this information. Explosives movement routes are properly designated on the D-8 Tab, in coordination with the Base Civil Engineer. (**NOTE:** The assessment of Category Code 851-147 will also include roads within the MSA.)

**Note:** Portions of explosives movement routes may be part of the overall base infrastructure and may include roads or streets that are part of the general base circulation. Inspection of roadways must be coordinated with the Base Civil Engineer.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Does the movement route meet Q-D and facility guide requirements? | | |
| *Are there any existing safety or security discrepancies affecting the movement route? | | |
| *Are there any open AF Forms 332? | | |
| *Does the movement route location and design allow for known future mission changes? | | |
| *Does location of the movement route detract from mission performance? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Route avoids areas where high traffic, housing, schools, child development centers, youth centers, hospitals, recreational, commercial, or mission critical functions are located. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Route has adequate geometry and composition to accommodate the required turning radii of munitions trailers. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Roadway supports the maximum loaded vehicle weights associated with explosives movement for the installation. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Roadway and adjacent area permit proper drainage. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. Pavement markings are legible. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Rail crossings are level and smooth. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Rail crossings are marked and visibly unimpaired. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Roadway paving is structurally sound with no discernable hazards. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Shoulder is structurally sound with no discernable hazards. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Roadway drainage structures are structurally sound and maintained to allow proper drainage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Signage is present and legible. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. ***Unique Local Facility Features:*** Criteria: | | | 1 | 2 | 3 |
| Remarks | | | | | |

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order restore the route to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 852-261 - Vehicle Parking Operations – Used for Munitions Sub Pool Parking

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** Provide parking for munitions support organizational vehicles for functions required for 24-hour access to a substantial amount of their assigned vehicles. This area is also used to perform daily and weekly operator maintenance on the vehicles.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Does the parking area meet Q-D (as applicable) and facility guide requirements? | | |
| *Are there any existing safety or security discrepancies on the parking area? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Does the parking area location/facility and design allow for known future mission changes? | | |
| *Does the location of the parking area detract from mission performance? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Paved or stabilized surface (concrete, asphalt, AM-2 matting, or packed stone). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Proper lighting is installed to meet security requirements (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Security fencing at least 6 feet (1.83 m) high with controlled entry gate(s) to meet local security requirements (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Government vehicle parking areas located at least 100 feet (30 m) or intraline distance away from explosives locations. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Space requirements are calculated using AFH 32-1084, Table 20.1. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Facility Electrical (if applicable):*** | | | 1 | 2 | 3 |
| a. Transformers and switches: | | | | | |
| Criteria: | | | | | |
| *Condition of exposed conduits and cables. | | | | | |
| *Ground devices in place and corrosion-free. | | | | | |
| *Pull boxes and cabinets weatherproof. | | | | | |
| Remarks | | | | | |
| b. Exterior Lighting (if applicable): | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *All wiring in conduit tight and secure. | | | | | |
| *Luminates are operating and securely fastened. | | | | | |
| *Junction boxes are spark-proof and weatherproof. | | | | | |
| *All fixtures are grounded and corrosion-free. | | | | | |
| *Support poles in good condition and stable. | | | | | |
| *Lighting levels are sufficient to support mission requirements. | | | | | |
| Remarks | | | | | |
| 2. ***Pavements:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Structurally sound without cracks. | | | | | |
| *Pad shoulder is structurally sound. | | | | | |
| *Paving surface properly drains (i.e., no standing water). | | | | | |
| *Markings are present and legible. | | | | | |
| *Signage present and legible (as applicable). | | | | | |
| Remarks | | | | | |
| 3. ***Pad Access Roads:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Paving is structurally sound. | | | | | |
| *Shoulders are structurally sound and maintained. | | | | | |
| *Drainage system structurally sound and well maintained. | | | | | |
| *Width of roadway sufficient for access of vehicles. | | | | | |
| *Pavement load design supports vehicle weight. | | | | | |
| *Markings are present and legible. | | | | | |
| *Adequate drainage (i.e., no standing water). | | | | | |
| Remarks | | | | | |
| 4. ***Grounds:*** | | | 1 | 2 | 3 |
| a. Fencing (as applicable): | | | | | |
| Criteria: | | | | | |
| *Fence fabric, support posts, and hardware in good condition. | | | | | |
| *Manual or motor driven rail gates are operable and well maintained and safety guards are in place. | | | | | |
| *Gates are of sufficient width to maintain drive-through capability. | | | | | |
| *Fence system provides proper security for area. | | | | | |
| *Unwanted vegetation is maintained away from fence. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 4. b. Erosion control:<br>Criteria:<br>*Area is free of erosion.<br>*Area is well maintained and free of unwanted vegetation growth.<br>*Area has sufficient cover of vegetation. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. ***Explosives Safety (as applicable):***<br>Criteria:<br>*A minimum of 100 feet (30 m) or intraline distance is maintained between an explosives location and the vehicle parking pad.<br>*Parking areas within the explosives clear zone arc are annotated on explosives siting documentation. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. ***Structures (as applicable):***<br>Criteria:<br>*Parking facility, if present, is sized to protect authorized vehicles from weather.<br>*Doors are adequately sized to permit unobstructed egress. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. ***Unique Local Facility Features:***<br>Criteria: | | | 1 | 2 | 3 |
| Remarks | | | | | |

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|
| Remarks | | |

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order restore the route to an operational condition? | **Yes** | **No** |
| Remarks | | |

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds;

# FACILITIES INSPECTION CHECKLIST

## Category Code 890-158 - Load and Unload Platform (Railhead) – Used for Munitions Operations

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date Last Inspection |

**Facility Purpose:** The purpose of a railhead is to load and unload railcars. The assets may be transferred to/from the railcar to other modes of transportation or entered into the unit's munitions storage magazines. The railhead may be elevated or at ground level depending on the existing topography. The facility attributes may range from a simple concrete loading dock to a complex structure.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Does the railhead meet Q-D and facility guideline requirements? | | |
| *Does the facility user have the site plan available? | | |
| *Do the railhead's' size and layout meet mission needs? | | |
| *Are there any safety or security write-ups on the railhead from the latest inspections? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Does the railhead location and design allow for known future mission changes? | | |
| *Does location of the railhead detract from mission performance? | | |

Remarks

| **II. Mission Design Requirements** | Design Requirements | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Meets | Doesn't Meet | | | |
| 1. Paved or stabilized surface (concrete, asphalt, AM-2 matting, or packed stone) for use of associated handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. Proper lighting is installed to meet local operational and security requirements (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Security fencing at least 6 feet (1.8 m) high with controlled entry gate(s) to meet local security requirements (as applicable). | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Access road (if required) can accommodate the weight and turning radius of handling equipment. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 5. Cover may be required for protection from the weather and sun rays. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 6. Railroad trackage and infrastructure must be compatible with the common carrier. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 7. Track layout should be looped to allow two ways of exit. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 8. Loading ramp. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 9 Lightning protection. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Explosives Safety:*** | | | 1 | 2 | 3 |

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201, Q-D requirements are satisfied, net explosives weight limits are not exceeded, and commensurate measures are in-place. Any exceptions are properly identified and risk assessments are performed. Intraline distance applies to all transfer operations involving explosives except RO/RO and ISO containers.

*Placards -- Explosives limits and fire/chemical symbols are displayed.

*Inspections -- Annual ground and explosives safety and facility inspections are performed.

*Grounding -- A means to dissipate static electricity buildup is installed; static bonds and grounds are tested for resistance and continuity and records are on hand as per AFI 32-1065.

*Lighting -- Explosive-proof lights are used in Class I (explosives fuel/vapors) and Class II (explosives dust) environments; UL-approved lights are acceptable for all other environments.

*Wiring -- Wires to structures are underground at least 50 feet (15 m) away and have lightning arrestors and surge protection. Conduits require bonding to the facility at point of entry.

*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.

*Smoking prohibited within 50 feet (15 m) of explosives-laden railcars.

*Windows -- Made of blast-resistant material.

*General -- Facility has good drainage and is vermin resistant.

Remarks

| 2. ***Walls (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.

*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.

Remarks

| 3. ***Roof (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

(Circle One) Shingle Metal Gravel Rolled Frangible Concrete

Criteria:

*Free of leaks.

*Attachments are secure.

*No signs of failure, separation, or curling.

Remarks

| 4. ***Doors (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Overhead doors raise and lower smoothly, and can be locked in place.

*Doors swing/roll freely and fit in jambs.

*Locks and security hasps are in good condition.

*Safety mechanisms are in place to prevent accidental or inadvertent closing.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floors:*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Concrete is in good condition, without cracks and with a smooth surface to allow easy equipment movement. | | | | | |
| Remarks | | | | | |
| 6. ***Ceiling (as applicable)*** : | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *No visible damage, watermarks, or sagging. | | | | | |
| *No obvious hazards to personnel on the floor. | | | | | |
| Remarks | | | | | |
| 7. ***HVAC (as applicable):*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean. | | | | | |
| *Central equipment (heat exchangers, pumps, and fans) is clean and well maintained. | | | | | |
| *Wiring is in conduits and insulation is intact. | | | | | |
| *Electrical control and switchgear is properly tagged, labeled, and housed. | | | | | |
| *Filters are clean. | | | | | |
| *Stand-alone equipment (boiler and chiller units) is well maintained. | | | | | |
| *Start/stop control switch is properly mounted. | | | | | |
| *Damper controls and motors are in good working order. | | | | | |
| Remarks | | | | | |
| 8. ***Facility Electrical (as applicable):*** | | | 1 | 2 | 3 |
| Criteria: | | | | | |
| *All wiring is in conduit. | | | | | |
| *Ground devices are free of corrosion. | | | | | |
| *Support poles are in good condition and located at least 50 feet (15 m) away from facilities. | | | | | |
| *Switch box plates are water and dust tight. | | | | | |
| *Switches are in spark-proof enclosures. | | | | | |
| *Junction boxes are spark-proof and watertight. | | | | | |
| *Transfer switch and breaker panels are operable. | | | | | |
| *Generator and back-up power is available and in good repair. | | | | | |
| *Substations are away from explosives operations. | | | | | |
| *Switches and breakers contain lightning arrestors and surge protection. | | | | | |
| *No hazardous materials [polychlorinated biphenyls (PCBs)] are present. | | | | | |
| *Transformers are free of leaks, are closed, and are weather-proof. | | | | | |
| *If required, appropriate surge protection devices are installed. | | | | | |
| *Energy management and controls transfer switches operable and waterproof, breaker panels operable and waterproof or dustproof, automatic controls operable, grounded, and well maintained, and battery charger operable and protected from weather. | | | | | |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 9. ***Plumbing and Mechanical Systems (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.
*Meters are operable.
*Piping is free of corrosion and located away from moving equipment.
*Valves and piping are free of leaks.
*Piping penetrating the facility is grounded.
*Pressure regulators are installed and operable.
*Shut-off valves are clearly marked.
*Steam and hot water lines are grounded.

Remarks

| 10. ***Fire Protection/Prevention (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well-located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities and along the railroad right-of-way.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812-mm) wide outward-opening doors within 75 feet (23 m) for emergency evacuation.

Remarks

| 11. ***Pavements:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.
*Roads -- Pavement is structurally sound and supports loaded vehicles; drainage is sufficient; markings are legible; and is sufficient in width.
*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.
*Railhead ramp and dock of sufficient size, paving is structurally sound, and safety signs are present and legible.
*Rail crossings are level and smooth and clearly marked to enhance visibility.

Remarks

| 12. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.
*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.
*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.
*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 13. ***Water Supply and Distribution (as applicable):*** | | | 1 | 2 | 3 |

Criteria:
*Well/Water Source -- Quality testing records are current and water supply is adequate.
*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility are grounded.
*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.
*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

| 14. ***Communications (as applicable):*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Equipment location is clearly marked and visible.
*Equipment is operable and well maintained enclosure.
*Equipment located in waterproof and dustproof enclosure.

Remarks

| 15. ***Railhead Ramp and Dock:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Size of ramp and dock is sufficient to meet mission requirements.
*Paving is structurally sound without cracks.
*Pad shoulder is structurally sound.
*Paving surface drains (i.e., no standing water).
*Pavement markings are legible.
*Safety signs are present and legible.
*Area adjacent to pad drains.

Remarks

| 16. ***Trackage and Infrastructure:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

a. Trackage
Criteria:
*Ties in good condition and firmly set in ballast.
*Ballast is clean and well compacted.
*Track switches operable and well maintained.
*Track in alignment and true to grade.
*All connectors are present and tight.

Remarks

| b. Loading Dock: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Foundation in good condition, free of cracks.
*Edges are sound and intact; no crumbling.
*Dock plates/ramp extensions operable.
*Bumpers are securely fastened and in good repair.
*Safety markings are visible and clean.
*Ramp is constructed at safe grade.
*Dock is adequate width to permit maneuvering of loading equipment.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| **III. Facility Conditions (Continued)** | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 17. ***Lightning Protection System (LPS) Installed:*** | | | 1 | 2 | 3 |

Criteria:

*LPS inspection documentation being properly maintained.
*An LPS is Installed -- System features include air terminals and low impedance paths to ground.
*LPS components are grounded and all metallic penetrations are bonded.
*Side-flash protection is provided through separation.
*Surge protection is provided.
*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| 18. ***Lighting:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.
*Stairs and Ramps -- Must be illuminated with at least 5 foot-candles (54 meter-candles) of light.
*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 meter-candles) of light while detailed work may require 100 foot-candles (1,076 meter-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.
*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.
*No burnt out bulbs.

Remarks

| 19. ***Unique Local Facility Features:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

# FACILITIES INSPECTION CHECKLIST

## Category Code 610-144 -- Munitions Administration Facility

| | | | |
|---|---|---|---|
| Installation Name | | Location | Facility Bldg Number |
| Inspector | | Insp. Date | MAJCOM |
| Sq Footage | Type Constr. | Year Built | Date last Inspection |

**Facility Purpose:** These facilities house several administrative functions to include Munitions Operations, Combat Ammunition System, Munitions Control, Flight/Squadron Leadership, Dispatch, Training, etc.. One facility may be used or the functions may exist in a multitude of facilities.

**Facility Components**

| **I. Assess the overall condition of the facility with respect to mission impact.** | Mission Requirements | |
|---|---|---|
| | Meets | Does Not Meet |
| *Does the base master plan reflect the current facility category code? | | |
| *Are there any outstanding AF Forms 332? | | |
| *Are there any safety or security write-ups on the facility from the latest inspections? | | |
| *Does location of facility detract from mission performance? | | |
| *Do the facility's size and shape meet mission needs? | | |
| *Does the facility design allow for known future mission changes? | | |

Remarks

| **II. Mission Design Requirements** | Mission Requirements | | Impact** | | |
|---|---|---|---|---|---|
| | Meets | Does Not Meet | | | |
| 1. Facility size dependent upon local requirements. Refer to AFH 32-1084, Tables 3.2 and 3.3, to help calculate the required square footage. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. A non-interruptible power supply is required to maintain operational capability. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. Dependent on threat analysis, semi-hardened, splinter protected, or hardened construction criteria may apply. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. Munitions Control Requires: | | | 1 | 2 | 3 |

*Construction to meet Controlled Area requirements outlined in AFI 31-101.
*Solid wood or metal door with a peephole or video monitoring device and electrical or mechanical lock.
*Floors covered with an industrial grade carpet.
*Standby power and emergency power required.
*Two dedicated land mobile radio networks.
*Secure voice communications capability.
*Dedicated phone lines to Explosives Ordnance Disposal, Fire Department, Security Forces, Command Post, Maintenance Operations Center, all munitions work centers, and Command Operations Center.
*Flooring able to support weight of safes.
*Rooms completely enclosed, air conditioned, and heated.
*Sufficient 110VAC power outlets to run equipment, status boards, computers, battery chargers, and radio base stations.
*Local area network for operation of Munitions Control 2000.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| | | | | | |
|---|---|---|---|---|---|
| 5. A training area is required for teaching the Combat Munitions Training Program. Size of the training room dependent upon the mission and types of munitions annotated on the Unit Committed Munitions List. | | | 1 | 2 | 3 |
| Remarks | | | | | |

| **III. Facility Conditions** | General Conditions | | Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 1. ***Components:***<br>Criteria:<br>*Assess the overall conditions of the facility.<br>*Sub-systems operate as designed.<br>*Facility meets facility guide requirements.<br>*All the systems operational. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 2. ***Facility Electrical:***<br>Criteria:<br>*System provides adequate service capacity for functions occurring in facility.<br>*Feeder capacity into facility is sufficient for all functions collectively.<br>*Panel breaker box capacity for facility is sufficient for all functions collectively.<br>*Outlets number and location is sufficient for function occurring within each functional area. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 3. ***Lighting:***<br>Criteria:<br>*Fluorescent Fixtures -- If not designed with self-locking tubes, must have a retaining device.<br>*Stairs and Ramps -- Must be illuminated with at least 5 foot-candles (54 foot-candles) of light.<br>*General Illumination Guidelines -- Hallways require a minimum of 5 foot-candles (54 foot-candles) of light while detailed work may require 100 foot-candles (1,076 foot-candles). Bio-Environmental Engineering is contacted to ensure proper illumination is available.<br><br>*Excessive Lighting -- Avoided to prevent glare and harsh shadows. This is very important for exterior lighting.<br>*Computer Usage -- Lighting is adequate but not too bright to cause glare or discomfort.<br>*No burnt out bulbs.<br>*Emergency lighting and exit signs installed. | | | 1 | 2 | 3 |
| Remarks | | | | | |
| 4. ***Facility Structures:***<br>Criteria:<br>*Foundation -- Structure has not settled, cracked or deteriorated.<br>*Columns and Exterior Wall -- Physical condition is sound & well maintained.<br>*Outer surfaces have received coating of waterproofing/paint.<br>*All door and window penetrations are caulked.<br>*Outer surfaces are clean, pointed or painted.<br>*Insulation is in place and in good condition.<br>*Facility has received regular maintenance actions.<br>*Seismic features have been included in initial construction.<br>*Security is consistent with function occurring in space. | | | 1 | 2 | 3 |
| Remarks | | | | | |

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 5. ***Floor Systems:*** | | | 1 | 2 | 3 |

Criteria:
*Floor is structurally sound and free of settlement, cracks or deterioration.
*Floor finish is intact & well maintained.
*Floor loading is within initial design limits.
*Seismic features have been included in initial construction.
*Security is consistent with function occurring in space.

Remarks

| 6. ***Roof:*** (Circle One) Shingle Metal Gravel Rolled Frangible Concrete | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Free of leaks.
*Attachments are secure.
*No signs of failure, separation, or curling.

Remarks

| 7. ***Ceiling*** : | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*No visible damage, watermarks, or sagging.
*No obvious hazards to personnel on the floor.
*Security is consistent with functions occurring in space.
*Ceiling system/material is suitable for function occurring in space.

Remarks

| 8. ***Walls:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Exterior -- Clean, intact, and free from damage. Paint and caulking are in good condition and water tight.
*Interior -- Structural members and cross bracing are free from deterioration, caulking around wall penetrations watertight, and there are no unauthorized attachments that may compromise the design function.

Remarks

| 9. ***Window Systems:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:
*Windows are functional.
*Physical condition is good and well maintained.
*Air infiltration (in/out) is within acceptable limits.
*Security is consistent with functions occurring in space.
*Shard protection required if facility is within the explosives clear zone arc.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 10. ***Doors:*** | | | 1 | 2 | 3 |

Criteria:
*Overhead doors must raise and lower smoothly, and can be locked in place.
*Doors swing/roll freely and fit in jambs.
*Locks and security hasps are in good condition.
*Safety mechanisms are in place to prevent accidental or inadvertent closing.
*Door leaf is solid core or metal and free of deterioration.
*Frame is intact, solid, and free of deterioration.
*Fire rating is consistent with rest of structure.
*Security is consistent with functions occurring in space.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 11. ***HVAC:*** | | | 1 | 2 | 3 |

Criteria:
*Ductwork and accessories well supported, insulation intact, and outlet diffusers are clean.
*Central equipment (heat exchangers, pumps, and fans) is clean and well maintained.
*Wiring is in conduits and insulation is intact.
*Electrical control and switchgear is properly tagged, labeled, and housed.
*Filters are clean.
*Stand-alone equipment (boiler and chiller units) is well maintained.
*Start/stop control switch is properly mounted.
*Damper controls and motors are in good working order.
* System capacity is sufficient to service all spaces.
*Temperature/cooling controls are operable and secured.
*Noise level is acceptable for functions occurring in facility.
* Efficient/power consumption is within energy audit standards.
*System maintains acceptable temperature levels for all seasons.
*System is reliable and maintainable.
*Security is consistent with functions occurring in space.

Remarks

| | | | | | |
|---|---|---|---|---|---|
| 12. ***Fire Protection/Prevention:*** | | | 1 | 2 | 3 |

Criteria:
*Sprinkler System -- Piping is properly installed and supported; system is free of leaks; sprinkler heads are properly positioned; and the system shut-off valve is readily accessible and unobstructed.
*AFFF and Carbon Dioxide Bottles -- Supported, secured, and inspections are current.
*Fire Alarm -- Panel is marked and accessible.
*Detectors -- Well-located and operable.
*Pull Stations -- Well-located and alarms are audible.
*Halon System -- Inspections are current; instructions are posted; and halon bottles are supported and secured.
*Fire Drills -- Conducted at least every six months.
*Vegetation Control -- Exercised within 50 feet (15 m) of above-ground facilities.
*Emergency Evacuation -- Sufficient stairs available (if applicable); when possible, a minimum of two 32-inch (812 m) wide outward-opening doors with panic hardware within 75 feet (23 m) for emergency evacuation.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 13. ***Pavements:*** | | | 1 | 2 | 3 |

Criteria:

*Lighting -- Perimeter security lights are installed and sufficient lighting for night operations. No burnt out lights.
*Roads -- Pavement is structurally sound and supports loaded vehicles; markings are legible; and is sufficient in width.
*Parking -- Properly sited; sufficient room to maneuver; type of pavement supports gross weight of assigned equipment; adequate spaces; and lots are properly marked.
*Roadway and adjacent area drains contain no standing water.
*Drainage -- Structures are sound and maintained; and areas are free of debris and blockage.

Remarks

| 14. ***Grounds:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Sidewalks and Miscellaneous Pads -- Sidewalks are in good repair; pads are in good repair; and pads are sufficiently sized for equipment.
*Landscaping -- Grass, trees, and shrubs are maintained; and grounds are free of holes and other hazards.
*Erosion Control -- Area is free of erosion with suitable vegetation to prevent erosion.
*Fencing -- Security fencing is installed and is in good repair; vegetation is controlled around fencing; and rail-driven gates are operable.

Remarks

| 15. ***Explosives Safety:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Siting Requirements -- Facility is sited in accordance with DoD 6055.9 STD and AFMAN 91-201 (if required), Q-D requirements are satisfied, and any exceptions are properly identified and risk assessments are performed.
*Inspections -- Annual ground and explosives safety and facility inspections are performed.
*Lighting -- UL-approved lights are acceptable.
*Installed Equipment -- Meets NFPA 70 and AFI 32-1065 requirements.
*Windows -- Made of blast-resistant material if within the explosives clear zone arc.
*General -- Facility has good drainage and is vermin resistant.

Remarks

| 16. ***Water Supply and Distribution:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Well/Water Source -- Quality testing records are current and water supply is adequate.
*Pipes, Valves, and Fittings -- Located below grade; cathodic protection is installed; valves and meters are operable; and pipes entering the facility must be grounded.
*Elevated Tanks -- Containment areas are free of debris; tanks are in good repair; and support structures are stable and in good repair.
*Water Treatment -- Filters are installed and conditioning equipment is maintained.

Remarks

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

| III. Facility Conditions (Continued) | General Conditions | | Mission Impact** | | |
|---|---|---|---|---|---|
| | Satisfactory | Unsatisfactory | | | |
| 17. ***Natural Gas Storage and Distribution:*** | | | 1 | 2 | 3 |

Criteria:

*Cathodic Protection -- A system is installed, corrosion free, and the sacrificial plate (anode) volume is 25% or +.

*Pipes, Valves, and Fittings -- Outside components are protected from vehicles and other moving objects; piping penetrating the facility must be grounded; and shut-off valves are readily accessible.

*Regulators -- Are accessible, supported, and leak-free.

*Storage Tanks -- Are securely anchored to their support structure, have pressure relief valves, are protected from vehicular damage, and tank surface and connections are free of corrosion.

Remarks

| 18. ***Plumbing and Mechanical Systems:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*Drainage systems support holding tanks, and drain and waste facilities are properly maintained.

*Meters are operable.

*Piping is free of corrosion and located away from moving equipment.

*Valves and piping are free of leaks.

*Piping penetrating the facility is grounded.

*Pressure regulators are installed and operable.

*Shut-off valves are clearly marked.

*Steam and hot water lines are grounded.

Remarks

| 19. ***Lightning Protection:*** | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Criteria:

*LPS inspection documentation being properly maintained.

*An LPS is Installed -- System features include air terminals and low impedance paths to ground.

*Surge protection is provided.

*Meets NFPA 780 and MIL-HDBK-419 requirements.

Remarks

| 20. ***Unique Local Facility Features:*** Criteria: | | | 1 | 2 | 3 |
|---|---|---|---|---|---|

Remarks

| **Photographic Documentation** (If yes, please attach) | **Yes** | **No** |
|---|---|---|

Remarks

| **Are work orders (Air Force Form 332) required for discrepancies?** | **Yes** | **No** |
|---|---|---|
| Will completion of "332" work order discrepancies restore the building to an operational condition? | **Yes** | **No** |

Remarks

**IV. Summary**

** Impact: 1 - Minimal or No Impact 2 - Degraded Impact with "Work Arounds" 3 - Critical Impact - No Suitable Work Arounds; Work Stoppage/Life-Safety Hazard

URS

7720 North 16th Street, Suite 100, Phoenix, Arizona 85020 Tel.:602.371.1100