

hmmwv pmcs

hmmwv pmcs are an essential aspect of maintaining the operational readiness and longevity of High Mobility Multipurpose Wheeled Vehicles (HMMWVs). Preventive Maintenance Checks and Services (PMCS) are routine inspections and maintenance procedures performed to ensure that these military vehicles function safely and effectively under all conditions. This article provides a comprehensive overview of the hmmwv pmcs process, highlighting its importance, the key components involved, and best practices for conducting thorough inspections. Additionally, the article covers common issues identified during PMCS and the necessary corrective actions to keep HMMWVs mission-ready. Understanding the detailed protocols and checklists associated with hmmwv pmcs is crucial for military personnel and maintenance technicians alike. The following sections will delve into the fundamental aspects of hmmwv pmcs, including preparation, inspection procedures, documentation, and troubleshooting guidelines.

- Overview of HMMWV PMCS
- Preparation for HMMWV PMCS
- Key Components Inspected During PMCS
- Common Issues Detected in HMMWV PMCS
- Documentation and Reporting
- Best Practices for Effective HMMWV PMCS

Overview of HMMWV PMCS

HMMWV PMCS refers to the systematic process of conducting preventive maintenance checks and services on High Mobility Multipurpose Wheeled Vehicles. These procedures are designed to identify potential mechanical, electrical, and operational issues before they result in vehicle failure. The PMCS process is a mandatory routine in military operations, ensuring that HMMWVs remain reliable and safe for use in a variety of environments. It includes daily, weekly, and monthly inspections, each with specific tasks tailored to maintain optimal vehicle performance. The goal of hmmwv pmcs is to extend the service life of the vehicle, minimize downtime, and enhance safety for operators and passengers.

Purpose and Importance

The primary purpose of hmmwv pmcs is to detect and correct problems early, preventing costly repairs and mission delays. Regular maintenance checks contribute significantly to combat readiness by ensuring that vehicles are always in peak condition. Additionally, proper pmcs enhances safety by mitigating risks associated with vehicle malfunctions. The military emphasizes thorough training for personnel conducting pmcs to uphold strict standards and guarantee consistency across all inspections.

Frequency and Types of PMCS

HMMWV pmcs occur at various intervals, typically categorized into daily, weekly, and monthly checks. Daily pmcs focus on critical systems such as fluid levels, tire condition, and basic operational functions. Weekly and monthly inspections are more comprehensive, including detailed examination of the engine, transmission, electrical system, and chassis. Each type of pmcs follows a standardized checklist to ensure no aspect of the vehicle is overlooked during inspections.

Preparation for HMMWV PMCS

Effective hmmwv pmcs begins with proper preparation. This stage ensures that technicians have all necessary tools, equipment, and documentation before starting the inspection process. Adequate preparation minimizes inspection time and maximizes thoroughness. It also helps maintain safety standards by ensuring that all personnel follow proper procedures and precautions.

Required Tools and Equipment

Performing a thorough hmmwv pmcs requires a variety of tools and equipment that include, but are not limited to, the following:

- Flashlight for inspection of dark or enclosed areas
- Tire pressure gauge
- Fluid dipsticks and measuring devices
- Socket and wrench sets
- Cleaning supplies for removing dirt and debris
- Personal protective equipment such as gloves and safety glasses

Reviewing Technical Manuals and Checklists

Consulting the appropriate technical manuals and PMCS checklists is a critical preparation step. These documents provide detailed instructions and specifications for inspecting various vehicle components. Familiarity with these resources ensures that inspections align with military standards and procedures. Technicians must review vehicle-specific manuals regularly to stay updated on any changes or new requirements.

Key Components Inspected During PMCS

The thoroughness of hmmwv pmcs depends on the detailed inspection of critical vehicle components. Each part plays a vital role in the overall functionality and safety of the HMMWV. Inspectors systematically evaluate these components to detect wear, damage, or malfunctions.

Engine and Transmission Systems

The engine and transmission are the heart of the HMMWV, requiring careful inspection during pmcs. Checks include verifying fluid levels such as engine oil, transmission fluid, and coolant. Inspectors look for leaks, abnormal noises, or signs of overheating. Proper functioning of belts, hoses, and filters is also assessed to prevent engine failure during operation.

Electrical System

The electrical system encompasses the battery, wiring, lighting, and control units. PMCS involves testing battery voltage, checking terminal connections for corrosion, and ensuring all lights and indicators function correctly. Faulty electrical components can compromise vehicle safety and communication capabilities, making this inspection essential.

Tires and Suspension

Tire condition is a critical safety factor. Inspectors measure tire pressure, examine tread depth, and look for cuts or punctures. The suspension system, including shock absorbers and springs, is checked for damage or excessive wear that could affect vehicle handling and ride quality. Ensuring proper tire and suspension health contributes to vehicle stability and off-road capability.

Brakes and Steering

Brake system inspections include checking brake fluid levels, brake pad thickness, and operation of the parking brake. The steering system is examined for looseness or unusual play that could impair control. Maintaining these systems in excellent condition is vital to prevent accidents and ensure precise vehicle maneuvering in diverse environments.

Body and Frame

The physical integrity of the HMMWV's body and frame is inspected for cracks, rust, or structural damage. Damage to these components can compromise vehicle safety and durability. Inspectors also verify the security of doors, windows, and mounting points for additional equipment.

Common Issues Detected in HMMWV PMCS

During hmmwv pmcs, several recurring issues are frequently identified. Recognizing these common problems enables maintenance teams to apply targeted corrective measures that enhance vehicle reliability.

Fluid Leaks and Contamination

Leaks in engine oil, coolant, brake fluid, or transmission fluid are among the most common problems discovered in pmcs. Contaminated fluids can degrade system performance and cause mechanical failures. Prompt detection and repair of leaks prevent more severe damage.

Worn or Damaged Tires

Tire wear, punctures, and improper inflation are typical concerns. These conditions reduce traction and increase the risk of blowouts, especially in off-road conditions. Regular tire inspections and replacements are critical to vehicle safety.

Battery and Electrical Failures

Corroded terminals, weak batteries, and faulty wiring are common electrical issues. These problems can lead to vehicle starting failures and loss of critical lighting or communication functions. Routine electrical checks and cleaning prevent unexpected breakdowns.

Brake Wear and Malfunction

Brake pads and discs often show signs of wear that require timely replacement. Brake system leaks or failures are hazardous and must be addressed immediately to maintain safe stopping power.

Documentation and Reporting

Accurate documentation is a fundamental aspect of hmmwv pmcs. Detailed records of inspections, findings, and corrective actions provide accountability and facilitate ongoing vehicle maintenance management.

PMCS Checklists and Forms

Technicians utilize standardized pmcs checklists to ensure consistent inspections across all vehicles. These forms document the condition of each vehicle component, noting any deficiencies or required repairs. Proper completion of these checklists is mandatory for compliance with military maintenance protocols.

Reporting Deficiencies and Maintenance Requests

When defects or issues are identified during pmcs, they must be reported promptly to maintenance supervisors. Maintenance requests are generated to schedule repairs or replacements. This reporting process ensures that vehicle issues are addressed before they escalate into critical failures.

Best Practices for Effective HMMWV PMCS

Adhering to best practices during hmmwv pmcs maximizes inspection effectiveness and vehicle readiness. Implementing systematic procedures and continuous training enhances maintenance quality.

Consistent Training and Certification

Maintainers and operators should undergo regular training and certification to stay proficient in pmcs procedures. Familiarity with the latest technical manuals and inspection techniques is vital to maintain high standards.

Thoroughness and Attention to Detail

PMCS requires meticulous attention to detail to identify subtle issues that could impact vehicle performance. Inspectors should avoid rushing and follow checklists methodically to ensure comprehensive

coverage.

Use of Proper Tools and Safety Measures

Employing the correct tools and adhering to safety protocols during pmcs protects personnel and prevents damage to vehicle components. Safety equipment and clean working environments contribute to efficient and safe inspections.

Regular Review and Updates of Procedures

Maintenance protocols and pmcs checklists should be reviewed periodically to incorporate technological updates and feedback from field experiences. Continuous improvement in procedures supports sustained vehicle reliability and operational success.

Frequently Asked Questions

What does PMCS stand for in relation to HMMWV vehicles?

PMCS stands for Preventive Maintenance Checks and Services, which are inspections and maintenance tasks performed on HMMWV vehicles to ensure they are operational and safe.

Why is PMCS important for HMMWV maintenance?

PMCS is crucial for HMMWV maintenance because it helps identify potential issues early, prevents vehicle breakdowns, ensures safety, and extends the service life of the vehicle.

How often should PMCS be conducted on a HMMWV?

PMCS should be conducted daily before and after missions, as well as during scheduled maintenance intervals as outlined in the HMMWV technical manual.

What are common components checked during a HMMWV PMCS?

Common components checked include engine oil levels, tires, brakes, lights, fuel system, battery, transmission, and the vehicle's overall structural condition.

Where can soldiers find the official PMCS checklist for HMMWV

vehicles?

Soldiers can find the official PMCS checklist for HMMWV vehicles in the operator's manual or technical manual provided by the U.S. Army, often accessible via digital platforms like AKO or the Army's maintenance websites.

What are the consequences of skipping PMCS on a HMMWV?

Skipping PMCS can lead to undetected mechanical failures, increased risk of accidents, mission delays, costly repairs, and reduced vehicle lifespan.

Additional Resources

1. *Humvee Maintenance and PMCS Guide*

This comprehensive manual provides detailed procedures for performing Preventive Maintenance Checks and Services (PMCS) on Humvees. It covers daily, weekly, and monthly maintenance routines to ensure vehicle readiness and longevity. The guide is illustrated with step-by-step instructions and troubleshooting tips for common issues.

2. *Humvee Operator's Handbook: PMCS and Field Care*

Designed for military operators, this handbook focuses on the essential PMCS tasks required to keep Humvees operational in field conditions. It emphasizes quick inspections and minor repairs that can be performed under combat or training environments. The book also includes safety protocols and checklists.

3. *Advanced Diagnostics and PMCS for Humvees*

This book delves into advanced diagnostic techniques and PMCS procedures for Humvees, combining technical theory with practical application. It is ideal for maintenance technicians looking to deepen their understanding of vehicle systems and fault identification. The text includes case studies and real-world examples.

4. *Humvee PMCS Illustrated Manual*

An easy-to-follow illustrated manual that breaks down the PMCS process for Humvee vehicles into simple, clear steps. Each component is shown in detailed diagrams, helping users identify parts and maintenance points. This visual guide is perfect for both new and experienced operators.

5. *Field Maintenance and PMCS Strategies for Humvees*

This title explores strategic approaches to conducting PMCS in various field environments, focusing on maximizing Humvee operational readiness. It addresses challenges such as limited resources, environmental factors, and time constraints. The book also offers tips for efficient inventory and tool management.

6. *Humvee PMCS: Best Practices and Common Pitfalls*

Highlighting best practices in PMCS, this book helps users avoid frequent mistakes that can lead to vehicle

downtime or damage. It provides practical advice on inspection routines, documentation, and communication within maintenance teams. The guide also discusses the impact of proper PMCS on mission success.

7. Military Vehicle PMCS: Humvee Edition

A focused volume on PMCS tailored specifically for the Humvee platform, this book integrates military standards and procedures. It covers the roles and responsibilities of operators and maintenance personnel in maintaining vehicle readiness. Emphasis is placed on compliance with military regulations and safety standards.

8. Humvee Preventive Maintenance: Tools and Techniques

This book outlines the essential tools and techniques required to perform effective PMCS on Humvees. It reviews diagnostic equipment, maintenance tools, and best methods for inspections and repairs. The content is designed to improve efficiency and accuracy in maintenance tasks.

9. Humvee PMCS Training Workbook

An interactive workbook meant for training new operators and maintainers in Humvee PMCS procedures. It includes quizzes, practical exercises, and scenario-based learning to reinforce knowledge retention. The workbook supports hands-on training and assessment of PMCS proficiency.

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HMMWV PMCS: A Comprehensive Guide to Maintaining Operational Readiness

This ebook delves into the crucial subject of High Mobility Multipurpose Wheeled Vehicle (HMMWV) Preventative Maintenance Checks and Services (PMCS), explaining its vital role in ensuring the operational readiness and longevity of these essential military vehicles. Proper PMCS is not simply about avoiding breakdowns; it's about maximizing vehicle lifespan, enhancing mission success, and minimizing costly repairs. Neglecting PMCS can lead to significant financial losses, mission failures, and even endanger personnel.

Ebook Title: Mastering HMMWV PMCS: A Practical Guide to Operational Readiness

Contents:

Introduction: The Importance of HMMWV PMCS and its impact on operational readiness and mission success.

Chapter 1: Understanding the HMMWV System: A detailed overview of the HMMWV's major components and their functions.

Chapter 2: The PMCS Process: Step-by-step guide to conducting effective PMCS, including checklists and troubleshooting common issues.

Chapter 3: Common HMMWV Problems and Solutions: A comprehensive list of frequent malfunctions, their causes, and practical solutions.

Chapter 4: Advanced PMCS Techniques: Exploring advanced diagnostic tools and techniques for identifying and resolving complex problems.

Chapter 5: Record Keeping and Reporting: The importance of meticulous documentation and reporting procedures for maintenance tracking.

Chapter 6: Safety Procedures during PMCS: Emphasizing safety protocols and precautions to prevent accidents during maintenance.

Chapter 7: Specialized HMMWV Variants and their PMCS needs: Addressing the unique maintenance requirements of different HMMWV models and configurations.

Conclusion: Recap of key learnings and emphasis on the ongoing importance of consistent PMCS for optimal HMMWV performance.

Detailed Outline:

Introduction: This section will establish the significance of HMMWV PMCS, highlighting its contribution to mission readiness, cost-effectiveness, and personnel safety. It will briefly cover the historical context of HMMWV use and the evolution of PMCS procedures.

Chapter 1: Understanding the HMMWV System: This chapter will provide a detailed breakdown of the HMMWV's major systems - engine, transmission, electrical, braking, suspension - explaining their functions and interdependencies. It will use diagrams and illustrations to enhance understanding.

Chapter 2: The PMCS Process: This is a step-by-step guide, providing a practical, hands-on approach to PMCS. It will include comprehensive checklists for various levels of PMCS, incorporating both daily and more extensive periodic inspections. Troubleshooting common problems encountered during PMCS will also be covered.

Chapter 3: Common HMMWV Problems and Solutions: This chapter will address frequent malfunctions, categorized by system (engine, electrical, etc.). Each problem will be described with its probable cause and solutions, including preventative measures. Real-world examples and case studies will be included.

Chapter 4: Advanced PMCS Techniques: This chapter will focus on more advanced diagnostic tools and procedures, such as using diagnostic software, interpreting error codes, and performing more complex repairs. It will cover troubleshooting techniques for less common issues.

Chapter 5: Record Keeping and Reporting: This section will explain the importance of proper documentation. It will detail the required formats for maintenance logs, the necessity for accurate record keeping for inventory control, and the implications of inadequate record-keeping.

Chapter 6: Safety Procedures during PMCS: This chapter will emphasize the critical importance of safety. It will include details on personal protective equipment (PPE), lockout/tagout procedures, proper lifting techniques, and the safe handling of hazardous materials.

Chapter 7: Specialized HMMWV Variants and their PMCS needs: This chapter will acknowledge the existence of various HMMWV configurations (ambulance, TOW missile carrier, etc.) and detail how their specific equipment impacts their PMCS requirements. It will provide specific checklists for these variations.

Conclusion: This section will summarize the key takeaways from the ebook, reinforcing the long-term benefits of consistent and thorough HMMWV PMCS. It will reiterate the importance of proactive maintenance in ensuring mission success and personnel safety.

HMMWV PMCS: A Deep Dive into Operational Readiness

(Keywords: HMMWV, PMCS, Preventative Maintenance, Military Vehicle Maintenance, High Mobility Multipurpose Wheeled Vehicle, Vehicle Maintenance Checklist, HMMWV Troubleshooting, HMMWV Repair, Military Logistics, Operational Readiness, Army Maintenance)

Chapter 1: Understanding the HMMWV System

The HMMWV, affectionately known as the Humvee, is a complex system of interconnected components. Understanding these components is crucial for effective PMCS. This chapter will dissect the major systems, providing clear explanations and diagrams. We'll cover the engine (including fuel injection, ignition, and cooling systems), the transmission (automatic and manual variations), the drivetrain (axles, differentials, and transfer case), the braking system (hydraulic and ABS), the suspension system, the electrical system (battery, alternator, and various circuits), and the steering system. We will also discuss the various subsystems specific to certain HMMWV variants, like the mounted weapon systems and communication equipment. Detailed illustrations and schematics will be used throughout the chapter to enhance comprehension.

Chapter 2: The PMCS Process

This chapter will provide a practical guide to executing effective PMCS. We'll start with the daily PMCS checklist, encompassing basic visual inspections, fluid level checks, and tire pressure checks. We'll then proceed to more detailed weekly, monthly, and periodic PMCS routines. Each section will include detailed instructions, diagrams, and checklists. This will also cover the correct use of specialized tools and equipment needed for PMCS, including torque wrenches and diagnostic scanners. We will provide practical examples and troubleshooting tips for common problems encountered during these inspections, enabling users to quickly address minor issues before they escalate.

(Continued in the same detailed fashion for Chapters 3-7, following the outlined structure above.)

Conclusion:

Consistent and effective HMMWV PMCS is not merely a routine task; it's an investment in operational readiness and mission success. By diligently following the procedures outlined in this ebook, personnel can significantly extend the lifespan of their HMMWVs, minimizing downtime, reducing maintenance costs, and ultimately ensuring the safety and effectiveness of military operations. This guide provides the foundation for maintaining optimal vehicle performance and contributing to overall operational efficiency. Remember, proactive maintenance is always cheaper and safer than reactive repairs.

FAQs

1. What is the frequency of HMMWV PMCS? The frequency varies; daily, weekly, monthly, and periodic inspections are all necessary depending on the usage and operational environment.
2. What tools are required for HMMWV PMCS? Tools range from basic hand tools (wrenches, screwdrivers) to specialized equipment (diagnostic scanners, torque wrenches). The specific tools needed depend on the level of PMCS.
3. Where can I find official HMMWV PMCS manuals? Official manuals can be obtained through the appropriate military channels or technical publications websites.
4. How do I properly document HMMWV PMCS? Use standardized forms and logs, recording date, time, performed tasks, findings, and any necessary repairs.
5. What are the common signs of HMMWV malfunctions? These can range from unusual noises, leaks, reduced performance, warning lights, and difficulty steering or braking.
6. How do I troubleshoot a HMMWV engine problem? Start with basic checks (fluids, belts, connections) and progress to more advanced diagnostics if necessary.
7. What are the safety precautions during HMMWV PMCS? Always wear appropriate PPE, follow lockout/tagout procedures, and be aware of potential hazards.
8. How do different HMMWV variants impact PMCS? Specialized variants require additional checks and maintenance for their unique equipment (e.g., weapons systems, communication equipment).
9. Where can I find further resources on HMMWV maintenance? Consult official military manuals, online forums, and specialized technical publications.

Related Articles:

1. HMMWV Engine Diagnostics: A Step-by-Step Guide: Troubleshooting common engine problems and using diagnostic tools.

2. HMMWV Electrical System Troubleshooting: Identifying and repairing faults in the vehicle's electrical system.
3. HMMWV Suspension System Maintenance: Regular checks and repairs to maintain optimal suspension performance.
4. HMMWV Transmission Repair and Maintenance: Addressing issues related to automatic and manual transmissions.
5. HMMWV Braking System Inspection and Repair: Ensuring safe and effective braking performance.
6. HMMWV Tire Maintenance and Repair: Proper inflation, rotation, and repair procedures.
7. HMMWV Parts and Components Sourcing: Finding genuine and reliable replacement parts.
8. HMMWV Customization and Modifications: Considerations for PMCS when modifying an HMMWV.
9. The Role of PMCS in Extending HMMWV Lifespan: A detailed analysis of how proper PMCS contributes to longevity.

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hmmwv pmcs: HMMWV Hummer M1113 Series Operators Manual TM 9-2320-387-10
 Brian Greul, 2021-06-17 The HMMWV or High Mobility Multipurpose Wheeled Vehicle, commonly called the Hummer was produced by AM General to replace the venerable Jeep or GPW vehicle that the US Military had used for decades. GM later released a similarly styled, but unrelated Hummer civilian vehicle. This manual is the operator's manual for the HMMWV military vehicle. It is printed as a convenience to enthusiasts, civilian and government operators and others who have need for a professionally printed version of the manual.

hmmwv pmcs: PS, the Preventive Maintenance Monthly , 2000 The Preventive Maintenance

Monthly is an official publication of the Army, providing information for all soldiers assigned to combat and combat duties. The magazine covers issues concerning maintenance, maintenance procedures and supply problems.

hmmwv pmcs: FM 21-11 First Aid for Soldiers United States. War Department, 2018-10-20 FM 21-11 1943: Basic field manual, first aid for soldiers.(OBSOLETE) The purpose of this manual is to teach the soldier what he can do for himself or a fellow soldier if injury or sickness occurs when no medical officer or Medical Department soldier is nearby. Information is also given concerning the use of certain supplies which are for the purpose of helping to keep well. This field manual addresses wounds, fractures/dislocations/ sprains, common emergencies and health measures, effects of severe cold and heat, measures for use in the jungle/tropics and in aircraft and tank injuries, transportation of sick and injured, war gases, and description and uses of first-aid kits and packets.

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hmmwv pmcs: Humvee HMMV M998 series Technical Manual Unit Maintenance For Brian Greul, 2021-01-17 The M998 HMMV (High Mobility Multipurpose Wheeled Vehicle) was introduced in 1983 to replace the ubiquitous M151 commonly called a Jeep. The HMMV will be replaced by the JLTV with the first fieldings beginning in 2019 for the US Military. This manual is a reprint of the official manual.

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hmmwv pmcs: Applying a Multi-skilled Soldier (MSS) Concept to the Stryker Brigade Combat Team (SBCT) John T. Nelsen, 2003 The general purpose of this study was to deepen and broaden thinking about the nature and implications of possible Multi-Skilled Soldier (MSS) Concept implementation. Specific objectives were (1) to determine applicability of the MSS to the Stryker Brigade Combat Team (SBCT), as it might be implemented in Initial Entry Training (IET) and (2) to prototype MSS Concept implementation for the SBCT, considering possible implementation for the Future Force. The report also defines the MSS; shows how the MSS Concept might fit conceptually within a larger Army training, education, and professional development model for Soldiers of all ranks; offers an MSS Program design for IET; and crafts actionable recommendations regarding general MSS implementation for IET. The study concludes that the MSS Concept is fully applicable to the SBCT, as well as the so-called Current Force. It also concludes that MSS implementation would have a significant salutary effect on unit training readiness postures across the force. This study relied heavily on insights and analysis gained from interviews with groups of senior NCOs and officers within the 3rd Brigade (SBCT), 2nd Infantry Division, Ft. Lewis, WA, during September 2002.

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command field and company grade officers, middle-grade and senior noncommissioned officers (NCO), and battalion and squadron command groups and staffs. This manual also provides guidance for division and corps leaders and staffs in training for and employment of the BCT in decisive action. This publication may also be used by other Army organizations to assist in their planning for support of battalions. This manual builds on the collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. It is rooted in time-tested principles and fundamentals, while accommodating new technologies and diverse threats to national security.

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detailed data that is normally contained in unit standing operating procedures (SOPs). Why buy a book you can download for free? We print the paperback book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the bound paperback from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these paperbacks as a service so you don't have to. The books are compact, tightly-bound paperback, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. <https://usgovpub.com>

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continuing activities as they are similar to the responsibilities of units assigned an area of operations.

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