TECHNICAL MANUAL

OPERATOR'S MANUAL

FOR

EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III)



DISTRIBUTION STATEMENT A: Approved for Public Release; Distribution is Unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

30 JUNE 2008

WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous material icons used within the technical manual.

For first aid information, refer to FM 4-25.11.

EXPLANATION OF HAZARDOUS MATERIALS ICONS



BIOLOGICAL – biohazard symbol means that contact with nuclear or biological material can cause harm to the equipment or the user.



CHEMICAL – drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.

FIRE – flame shows that a material may ignite and cause burns.

GENERAL SAFETY WARNINGS DESCRIPTIONS

WARNING

Pressing, starching, dry cleaning, or the use of fabric softener will degrade the ECWCS GEN III. Failure to following these instructions could result in harm to the soldier.

WARNING

DO NOT store in plastic bags that could trap moisture.

WARNING



If the ECWCS is exposed to any nuclear, biological, or chemical (NBC) elements, then dispose of in accordance with FM 3.11.3

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 30 JUNE 2008

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FOR

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual directly to: TACOM Life Cycle Management Command, ATTN: AMSTA-LC-LMPP / TECH PUBS, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. You may also send in your recommended changes via electronic mail or by fax. Our fax number is DSN 793-0726, and commercial number (309) 782-0726. Our e-mail address is TACOMLCMC.DAForm2028@us.army.mil. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

HOW TO OBTAIN TECHNICAL MANUALS

When a new system is introduced to the Army inventory, it is the responsibility of the receiving units to notify and inform the Unit Publications Clerk that a Technical Manual is available for the new system. Throughout the life cycle of the new system, the Distribution Center DOL-W will also provide updates and changes to the Technical Manual.

To receive new Technical Manuals or change packages to existing Technical Manuals (TM) for fielded equipment, provide the Unit Publications Clerk the full Technical Manual number, title, date of publication, and number of copies required. The Unit Publications Clerk will justify the request through the Unit Publications Officer. When the request is approved, the Unit Publications Clerk will use DA Form 12-R to order the series of Technical Manuals from the Army Publishing Directorate (APD).

Instructions for Unit Publications Clerk

Obtain DA Form 12-R and request a publications account from the APD Web site at http://www.apd.army.mil. Once on the Website, click on the "Orders/Subscriptions/Reports" tab. From the dropdown menu, select "Establish an Account," then select "Tutorial" and follow the instructions in the tutorial presentation.

Complete information for obtaining Army publications can be found in DA PAM 25-33.

OVERVIEW

This manual contains operating instructions and maintenance procedures for the Extended Cold Weather Clothing System Generation III (ECWCS GEN III).

TO ORDER THIS TECHNICAL MANUAL, FOLLOW THE LINK BELOW

https://www.logsa.army.mil/etms/online.htm

This manual is divided into the following major sections:

Front Cover. Provides information about the equipment covered by the TM.

Warning Summary. Provides a summary of all warnings that apply throughout the manual.

Table of Contents. Lists chapters and work packages in order of appearance.

Chapter 1. General Information, Equipment Description and Data and Theory of Operation. Provides descriptions, equipment data, and theory of operation information.

Chapter 2. Operator Instructions. Provides sizing information, donning information, and operating instructions in both usual and unusual conditions.

Chapter 3. Troubleshooting Procedures. Provides troubleshooting procedures for the ECWCS GEN III.

Chapter 4. Operator Maintenance Instructions. Provides instructions on hardware replacement, pad suspension replacement, cleaning the ECWCS GEN III, and PMCS.

Chapter 5. Supporting Information. Provides references information, Components of End Items (COEI)/ Basic Issue Items (BII) Lists, Expendable and Durable Items List and Additional Information for the ECWCS GEN III.

NAVIGATION

This TM is in work package format. All of the work packages contained within the TM are listed in the table of contents in the order they appear by chapters. The work package sequences number (e.g. WP 0001) is listed for each work package in the table of contents. The work package sequence number is at the top of the first page of the work package and is also a part of the page number for each work package (e.g. 0001-1). The page numbers appear at the bottom of each page.

OPERATION AND MAINTENANCE

Before you use the Extended Cold Weather Clothing System Generation III (ECWCS GEN III) familiarize yourself with the assembly and fitting instructions and the operating instructions (Chapter 2). Perform maintenance procedures (Chapter 3) on a regular basis. Always follow the WARNINGS and CAUTIONS.

CHAPTER 1 GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III)

GENERAL INFORMATION

SCOPE

This manual covers the basic fitting and use instructions for the Extended Cold Weather Clothing System Generation III (ECWCS GEN III), hereafter referred to as the ECWCS GEN III.

MAINTENANCE, FORMS, RECORDS AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual; DA PAM 738-751, or AR 700-138, Army Logistics Readiness and Sustainability.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your ECWCS GEN III needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. If you have Internet access, the easiest and fastest way to report problems or suggestions is to go to https://aeps.ria.army.mil/aepspublic.cfm (scroll down and choose the "Submit Quality Deficiency Report" bar). The Internet form lets you choose to submit an Equipment Improvement Recommendation (EIR), a Product Quality Deficiency Report (PDQR) or a Warranty Claim Action (WCA). You may also submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 via e-mail, regular mail, or facsimile using the addresses/facsimile numbers specified in DA PAM 750-8 The Army Maintenance Management System (TAMMS) Users Manual.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion or degradation problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items. Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or salts. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking. Plastics, composites, and rubbers can also degrade.

CORROSION PREVENTION AND CONTROL (CPC) - Continued

Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Not Applicable to the ECWCS GEN III.

PREPARTION FOR STORAGE OR SHIPMENT

Do not store the ECWCS GEN III in a compressed manner, for it tends to lose some of its thermal capability when stored this way. To properly prepare for storage or shipment, make sure that the system's components are loosely folded and are not wrapped in plastic.

LIST OF ABBREVIATIONS/ACRONYMS

Abbreviation/Acronym Name

AAL ACU ATTN BII C CAGEC COEI	Additional Authorization List Army Combat Uniform Attention Basic Issue Items Celsius Commercial and Government Entity Code Components of End Item
COLD	Clean, Overheating, Loose and Layered, Dry
CPC CTA	Corrosion Prevention and Control Common Table of Allowances
DA	Department of the Army
DoD	Department of Defense
F	Fahrenheit
ECWCS	Extended Cold Weather Clothing System
GEN III	Generation Three
JTA	Joint Table of Allowances
MTOE	Modified Table Of Organization and Equipment
NBC NSN	Nuclear, Biological, and Chemical National Stock Number
PGC	Procurement Group Code

LIST OF ABBREVIATIONS/ACRONYMS - Continued

TAMMS	The Army Maintenance Management System
TDA	Table of Distribution and Allowances
ТМ	Technical Manual
TOC	Table of Contents
TOE	Table of Organization and Equipment
U/I	Unit of Issue
UOC	Usable on Code
UV	Ultra Violet
WP	Work Package

END OF WORK PACKAGE

EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES

The ECWCS GEN III allows you to dress to adapt to varying missions and environments. It is important for you to have ECWCS GEN III components that fit you properly.

The ECWCS GEN III is made up of variable layers. Modularity of the system allows you to adapt the components to your mission and environment.

The ECWCS GEN III helps the soldier retain body heat, remain dry, and provides ventilation.

The ECWCS GEN III is a multi-layered, insulating system.

The ECWCS GEN III provides insulation to reduce the loss of body heat, and help wick moisture away from your body.

The ECWCS GEN III is made up of layers that increase air space, allow you to easily adjust to your activity level, and is wind/water proof/repellant.

The ECWCS GEN III can be ventilated in order to release unneeded heat and allow moisture to escape.

DESCRIPTION OF MAJOR COMPONENTS (BASE LAYER(S))

The Base Layer

Base layer (Figure 1) are those adjacent to your body and should be wom comfortably loose. The main purpose of these garments is to wick excess moisture away from your body. The Light-Weight Cold Weather Undershirt and Drawers (silk-weight) make up the base layer. The Mid-Weight Cold Weather Undershirt and Drawers (Figure 2) can be used as either a base or insulating layer.

Light-Weight Cold Weather Undershirt and Drawers: Base Layer

Long sleeve top and full-length bottom garments constructed out of Silk-weight moisture wicking polyester (Figure 1). The undershirt has a crew neck with long sleeves and is equipped with thumb loops at the ends of the sleeves to aid in donning outer ware over the shirt. Flat seam construction reduces chafing. Material aids in the movement of moisture from the skin to the outer layers both while the wearer is moving or static. The drawers have an elastic waistband and standard front fly opening. It is worn next to the skin or with the Mid-Weight Cold Weather Shirt/Drawers for added insulation and to aid in the transfer or moisture.



Figure 1. Light-Weight Cold Weather Undershirt and Drawers.

DESCRIPTION OF MAJOR COMPONENTS (INSULATION LAYER(S))

Insulation Layer(s)

The insulation layer(s) (Figures 2 and Figure 3) are the intermediate layer(s). They provide volume to enable you to trap warm air between your body and the outer garments. In addition, the insulation layer(s) help wick away any excess moisture. These layers should be comfortably loose to trap a sufficient volume of air. The Mid-Weight Cold Weather Undershirt and Drawers (Figure 2), and Fleece Cold Weather Jacket (Figure 3) make up the insulation layers. The Fleece Cold Weather Jacket can also be used as an outer layer.

Mid-Weight Cold Weather Shirt and Drawers: Base or Insulation Layer.

Long sleeve top and full-length bottom garments constructed out of polyester "grid" fleece (Figure 2). The shirt is equipped with a zippered neck and thumb loops at the ends of the sleeves to aid in donning outerware over the shirt. Provides light insulation for use in mild climates as well as acting as a layer for colder climates. During movement, provides an increase in surface area for the transportation of moisture away from the wearer. It may be worn over the Light-Weight Cold Weather Undershirt and Drawers as an insulating layer or next to the skin as a base layer.



Figure 2. Mid-Weight Cold Weather Shirt and Drawers.

DESCRIPTION OF MAJOR COMPONENTS (INSULATION LAYER(S)) - Cont

Fleece Cold Weather Jacket: Insulation or Outer Shell Layer

The Fleece Cold Weather Jacket (Figure 3) is foliage green and acts as a primary insulation layer for use in moderate to cold climate. It is worn underneath shell layers or worn as an outer garment for mild cool days. It has a hook and loop fastening system for name tag, rank, and US Army emblem placement, as well as a full length zipper on center front.



Figure 3. Fleece Cold Weather Jacket.

Outer Shell Layer(s)

The outer shell layer(s) (Figures 4 thru 7) are the external layers that protect you from the elements in your environment. They are made of a highly water and wind resistant material that provides greater moisture vapor transfer over current hard shell garments. Their main function is to keep you dry. In addition, they provide additional volume for trapping body heat. Increased breathability improves performance of the insulation layers by decreasing saturation due to moisture vapor accumulation. These layers should be worn comfortably loose. The Wind Cold Weather Jacket (Figure 4), Soft Shell Jacket and Trousers (Figure 5), Extreme Cold/Wet Weather Jacket and Trousers (Figure 6), and the Extreme Cold Weather Parka and Trousers (Figure 7) are the components that make up the outer shell layer.

Wind Cold Weather Jacket: Outer Shell Layer

The Wind Cold Weather Jacket (Figure 4) is made of a lightweight, wind resistant, and water repellant material. It acts as a minimum outer shell layer, improving the performance of moisture wicking of the insulation layers when combined with Body Armor and/or Army Combat Uniform. Use for wind stop protection during windy cool days. This layer features a simpler collar instead of a hood, a hook and loop fastening system for name tag, rank, and US Army emblem placement, as well as pockets designed with mesh linings to aide in ventilation.



Figure 4. Wind Cold Weather Jacket.

Soft Shell Jacket and Trousers: Outer Shell Layer

Soft Shell Jacket. Jacket (Figure 5) features a storable hood, shoulder pads with a hook and loop fastening system for name tag, rank, and US Army emblem placement, adjustable cuffs, underarm zippers, pockets designed with mesh linings to aid in ventilation, and an extended tail on the jacket to provide overlap to prevent snow from entering the system.

Soft Shell Trousers. Trousers (Figure 5) feature detachable suspenders (compatible with all trousers), front pockets with flap, drop seat capability, thigh cargo pockets, articulated knee, adjustable ankle cuff, and side zips on the lower leg to provide access when donning and doffing boots.

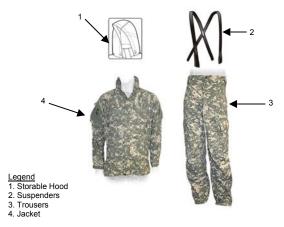


Figure 5. Soft Shell Jacket and Trousers.

Extreme Cold/Wet Weather Jacket and Trousers: Outer Shell Layer

The Extreme Cold/Wet Weather Jacket and Trousers (Figure 6) is a waterproof layer for use in prolonged and/or hard rain and cold/wet conditions. It is best used when temperatures are alternating between freezing and thawing, which creates mud and slush on the ground. Suspenders can be used with trousers if desired.

Extreme Cold/Wet Weather Jacket. Features a storable hood and pass-thru pockets.

Extreme Cold/Wet Weather Trousers. Features side zips on the lower legs to provide access when donning and doffing boots.



Figure 6. Extreme Cold/Wet Weather Jacket and Trousers.

Extreme Cold Weather Parka and Trousers: Outer Shell Layer

The Extreme Cold Weather Parka and Trousers (Figure 7) provide superior warmth with high compactability, low weight, and low volume. It is highly water and wind resistant providing wind and moderate moisture protection. It is sized to fit over the Body Armor during movement or static activities. Trouser design incorporates full side zips to allow for rapid donning and doffing over soft shell trousers. For extreme cold weather and climates; the outer most layer for last layer of protection.



Figure 7. Extreme Cold Weather Parka and Trousers.

EQUIPMENT DATA

The following table provides information pertaining to the physical data for the variable layers of the ECWCS GEN III.

NOTE

Weights listed in Table 1 are approximate due to variations in individual sizes.

Table 1. Physical Data for the ECWCS GEN III (Maximum Values for All Models).

Clothing Item	Layer	Weight LBS (KG)	Qty
Light-weight Cold Weather Undershirt	Base	0.35 (0.16)	2
Light-weight Cold Weather Drawers	Base	0.3 (0.14)	2
Mid-weight Cold Weather Shirt	Base or Insulation	0.7 (0.32)	1
Mid-weight Cold Weather Drawers	Base or Insulation	0.6 (0.27)	1
Fleece Jacket	Insulation or Outer	1.05 (0.48)	1
Wind Cold Weather Jacket	Outer	0.75 (0.34)	1
Soft Shell Jacket	Outer	1.5 (0.68)	1
Soft Shell Trousers (w/suspenders)	Outer	1.6 (0.73)	1
Extreme Cold/Wet Weather Jacket	Outer	0.75 0.34)	1
Extreme Cold/Wet Weather Trousers	Outer	0.85 (0.39)	1
Extreme Cold Weather Parka	Outer	2.3 (1.05)	1
Extreme Cold Weather Trousers	Outer	2.1 (0.95)	1
TOTAL SY	STEM WEIGHT (KG):	12.85 (5.84)	

END OF WORK PACKAGE

THEORY OF OPERATION

THEORY OF OPERATION

This work package discusses theory of operation of the ECWCS GEN III.

Extended Cold Weather Clothing System Generation III (ECWCS GEN III) is a breathable multi-layered, versatile, insulating system that allows the soldier to adapt to varying mission requirements and environmental conditions. The system is designed to maintain adequate environmental protection between 40°F and -60°F (4°C and -51°C). The ECWCS GEN III system uses moisture management principles to transfer perspiration away from your skin so you will remain dry and warm.

Under certain conditions such as high work activity followed by inactivity, the use of wool or wool-cotton clothing items with ECWCS GEN III will reduce the level of environmental protection provided by ECWCS GEN III.

In cold, wet and arctic environments it is recommended that you use only clothing items listed in the COEI list. Cotton undergarments and ACUs (cotton blends) are not recommended for use with the GEN III ECWCS.

ECWCS GEN III is not cumbersome in weight and bulk; the total system weighs approximately 13 pounds. ECWCS GEN III is easy to maintain both in field and garrison environments if the special use and care instructions are carefully followed.

END OF WORK PACKAGE

CHAPTER 2 OPERATOR INSTRUCTIONS FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (CCWCS GEN III) OPERATION UNDER USUAL CONDITIONS

INITIAL SETUP: Not applicable

OPERATING PROCEDURES

Keep ECWCS GEN III Clean. Clothing keeps you warm by trapping warm air against your body and in the pores of the clothing itself. If these pores become filled with dirt, sweat, or other grime, the clothing will not be able to do its job efficiently. Therefore, your clothes should be kept as clean as possible (Refer to WP 0008).

Avoid Overheating During Activity. The key is not to be hot or cold, but comfortably cool. Sweating is a sign that your body wants, and needs, to cool down. Let the environment cool you down naturally, to avoid sweating. This may be as simple as opening buttons or unzipping the underarms of the soft shell parka, instead of removing a whole layer of clothing. Once you stop your work, or feel yourself getting cold, bundle up again just enough to keep cool.

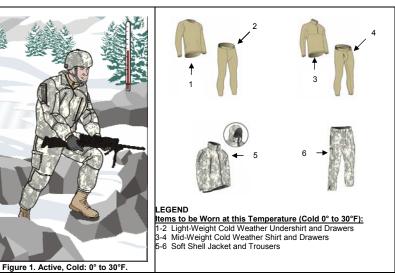
Wear ECWCS GEN III Clothing Loose and Layered. Clothes should fit loosely for comfort. The more layers used, the more warm air will be trapped. Tight clothing will also prevent air from being trapped between your body and your clothing. It is the trapped air that keeps you warm, not the clothes. Several thin layers working together will work better than one thick layer alone (i.e. wear both the Light-Weight and Mid-Weight base layers with a Fleece Jacket insulation layer and the Soft Sheil Jacket and Trousers outer shell layer).

Keep Clothing Dry. Clothing must be kept dry from the outside, such as putting on Extreme Wet/Cold Weather Jacket and Trousers during wet conditions, and from the inside, such as taking a layer off when you start to sweat. Once your clothes are wet, the water or sweat starts to evaporate, drawing warmth away from your body 25 times faster than when dry.

NOTE

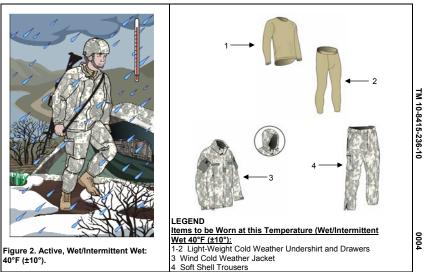
Clothing combinations shown in Figures 1 through 8 represent both recommended and optional configurations.





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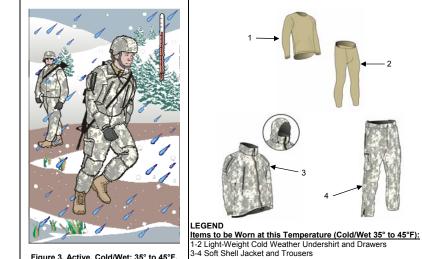
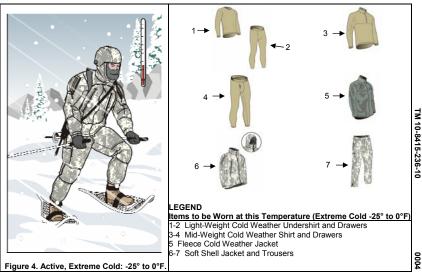


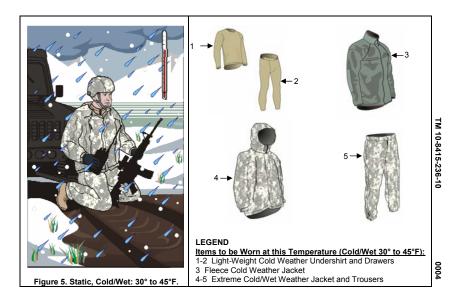
Figure 3. Active, Cold/Wet: 35° to 45°F.

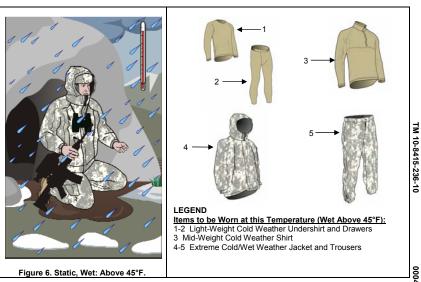
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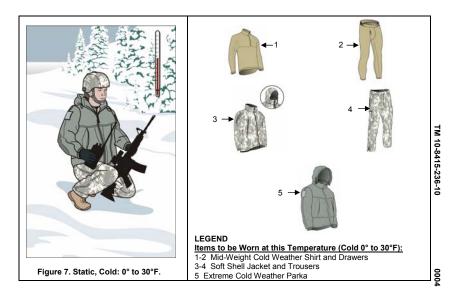


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DECALS AND INSTRUCTION PLATES

Tags located on the item would be of the Care and Maintenance variety, placed in specific spots on each of the items.

END OF WORK PACKAGE

OPERATOR MAINTENANCE OPERATION UNDER UNUSUAL CONDITIONS

INITIAL SETUP: Not applicable

INTERIM NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC) DECONTAMINATION PROCEDURES

While it is not possible to prepare for all unusual conditions the ECWCS GEN III will be exposed to, the following information should be helpful during unusual climatic conditions:

WARNING

If the ECWCS is exposed to any nuclear, biological, or chemical (NBC) elements, then dispose of in accordance with FM 3.11.3

CHAPTER 3 TROUBLESHOOTING PROCEDURES FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III) TROUBLESHOOTING PROCEDURES TUP: Not applicable

INITIAL SETUP: Not applicable

This work package lists troubleshooting tasks for each component of the ECWCS GEN III, along with the appropriate repair procedure.

NOTE

The proper combination of sizes per component is incorporated into the general size of the system itself. There is no mixing and matching necessary.

TROUBLESHOOTING PROCEDURE EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III)

SYMPTOM

Clothing size is too big. MALFUNCTION Unwanted gaps will allow air to penetrate outer guard. CORRECTIVE ACTION Replace system with one of correct size.

END OF TASK

SYMPTOM

Clothing size is too small.

MALFUNCTION

System will collapse and be unable to properly repel unwanted air intrusion.

CORRECTIVE ACTION

Replace system with one of correct size.

END OF TASK

SYMPTOM

Clothing hook and loop fastening system contains debris.

MALFUNCTION

May cause lack of adhesion between the two connecting hook and loop surfaces.

CORRECTIVE ACTION

Use special hook and loop combing tool to clean/clear the strip area of debris and other entanglements

END OF TASK

SYMPTOM

Zipper is jamming due to stickiness.

MALFUNCTION

Zipping/unzipping will be difficult, if not impossible.

CORRECTIVE ACTION

Rub a thin coating of wax or lead-pencil graphite on each side of the track and work zipper back and forth a few times. The wax or graphite lubricates the zipper and allows it to open or close more easily.

END OF TASK

SYMPTOM

Zipper is damaged.

MALFUNCTION

Zipping/unzipping is impossible.

CORRECTIVE ACTION

Turn in to central issue facility (CIF) and obtain a replacement.

END OF TASK

CHAPTER 4 OPERATOR MAINTENANCE INSTRUCTIONS FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III) HARDWARE REPLACE

REPLACE

This work package provides instructions for replacing the hardware in the ECWCS GEN III.

DRAW CORDS

- 1. Replace missing or defective elastic draw cords in length to match original.
- If barrel lock is broken, tie ends of draw cords into large knots until a new cord can be obtained from the organizational supply unit.

END OF TASK

OPERATOR MAINTENANCE FABRIC REPAIR

INITIAL SETUP: Materials/Parts: Sewing Kit (WP 0013, Item 1)

REPAIR

This work package provides instructions for repairing the fabric of the ECWCS GEN III.

Base Layer

1. To mend a ripped seam. Overlap the two-edge and sew with straight and small stitches.



Figure 1. Straight Stitch.

To repair a tear. Place the two edges together on the inside, and sew together.



Figure 2. Edge Sew.

3. To mend a frayed edge. Turn the frayed edge under and sew.



Figure 3. Turn Edge Under and Sew.

END OF TASK

Parka/Trousers

NOTE

The following procedures represent field expedient or temporary measures.

- 1. Stitch. Loosely stitch the rip or tear, keeping the seam as flat as possible.
- 2. Field Tape.
 - a. Turn the garment inside out, keeping the rip or tear as flat as possible.
 - b. Cut the appropriate size of tape to cover the rip or tear.
 - c. Round the edge of the tape to reduce fraying.
 - d. Place the tape over the rip or tear and press firmly.

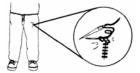


Figure 4. Sew Rip or Tear in Trousers.

END OF TASK

OPERATOR MAINTENANCE CLEANING

INITIAL SETUP: Materials/Parts Revivex® (WP 0013, Item 2) Nikwax, TX Direct, Wash-in (WP 0013, Item 3)

CLEANING

This work package provides instructions for cleaning the ECWCS GEN III.

WARNING

DO NOT store in plastic bags that could trap moisture.

When laundering, refrain from using fabric softener or bleach.

CAUTION

Pressing, Starching, Dry Cleaning, Bleaching, or the use of Fabric Softener will degrade the ECWCS GEN III. Follow the instructions carefully.

NOTE

Clean ECWCS GEN III clothing items regularly when in use. Dirty clothes wear out quickly because dirt cuts textile fibers and retains moisture from perspiration. Prior to laundering and drying, make sure all the drawcords are tied together, all zippers are zipped, and all snaps and hooks are fastened. Securing these items will result in a better laundered garment.

Field Care

NOTE

These are easy things you can do to keep your ECWCS GEN III in top-notch shape. If you do this, it will be ready for you to use.

- 1. Brush off all dirt and debris during use.
- 2. Store in patrol packs or rucksacks to protect while transporting.
- Clean your clothing items regularly. Dirty clothes wear out quickly because dirt cuts fibers and retains moisture. Refer to procedures detailed under home laundering paragraph.
- When required, use items listed in Table 1 to restore water repellency to the outer shell layer. See paragraph Restoring Water Repellency to the Outer Shell Layers.

END OF TASK

Home Laundering

CAUTION

Solvents/lubricants can bind and ruin silicones on soft shell.

These guidelines apply for all items and their layers:

- Machine-launder using the delicate/gentle fabric cycle or by hand. Use lukewarm water (90°F/32°C) and cold water laundry detergent.
- 2. Rinse in clean, cold water.
- Tumble dry wet garments at temperatures not exceeding 130°F/54°C as degradation of the component materials will result.
- 4. Avoid over drying.
- 5. To drip dry, place on a rust proof hanger.

END OF TASK

Restoring Water Repellency to the Outer Shell Layers

Repeated washings will reduce the effectiveness of the water repellency of the ECWCS GEN III outer shell layer. Water will be absorbed and the fabric will "wet out" instead of beading on the surface. When this happens, the water repellency will need to be restored. Table 1 below lists approved waterproofing and waterproof restoring compounds authorized for use on the outer shell layer. Follow manufacturer's recommended directions on the container.

Table 1. Approved Waterproofing and Waterproof Restoring Compounds for Outer Shell Layer.

Item	U/I	Source
Spray, Revivex®	5 or 10 oz. bottle	GSA
Nikwax®, TX Direct Wash-in	10 oz. bottle	Local Purchase

END OF TASK

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OPERATOR MAINTENANCE PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INTRODUCTION

General

Preventive maintenance checks and services (PMCS) are performed to keep the ECWCS GEN III in operating condition. The checks are used to find, correct, and report problems. The operator is to do the PMCS tasks shown in PMCS Table 1. PMCS is to be done before, during, and after use of the ECWCS GEN III.

Before you use the ECWCS GEN III, perform PMCS.

During use of the ECWCS GEN III, periodically perform PMCS.

After you have used the ECWCS GEN III, perform PMCS.

PMCS Column Description

Column (1) ITEM NO. The order the PMCS should be performed.

Column (2) INTERVAL. Tells when the check should be performed.

Column (3) ITEM TO BE CHECKED OR SERVICED. Tells which items to perform the PMCS procedure on.

Column (4) PROCEDURE. Tells which procedure is to be performed. If item cannot be repaired, it must be replaced.

Column (5) EQUIPMENT NOT READY/AVAILABLE IF. Tells what conditions render the ECWCS GEN III unfit to perform the mission.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
1	Before	Light-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
2	During	Light-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
3	After	Light-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
4	Before	Light-Weight Undershirt	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.

Table 1. Preventive Maintenance Checks and Services.

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	T		aintenance Checks and Services – Cont	
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
5	During	Light-Weight Undershirt	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
6	After	Light-Weight Undershirt	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
7	Before	Mid-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
8	During	Mid-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
9	After	Mid-Weight Drawers	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level	Excessive cuts, frays, or other damage to the fabric or stitching.

ontinued.
1

ITEM		ITEM TO BE CHECKED OR			EQUIPMENT NOT READY/AVAILABLE
NO.	INTERVAL	SERVICED		PROCEDURE	IF
			1	maintenance for repair.	
10	Before	Mid-Weight Shirt		Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			:	Check for sticky or damaged slide fastener. Apply wax or graphite to sticky zipper or refer to higher maintenance for repair.	Excessive damage to the slide fastener.
11	During	Mid-Weight Shirt		Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			:	Check for sticky or damaged slide fastener. Apply wax or graphite to sticky zipper or refer to higher maintenance for repair.	Excessive damage to the slide fastener.
12	After	Mid-Weight Shirt		Check for cuts, frays, or other damage to the fabric or stitching.	Excessive cuts, frays, or other damage to

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	T U.	ITEM TO BE		ance Checks and Services – Contin	
ITEM		CHECKED OR			EQUIPMENT NOT READY/AVAILABLE
NO.	INTERVAL	SERVICED		PROCEDURE	IF
110.		GERVICED		Refer to higher level maintenance for repair.	the fabric or stitching.
			2.	Check for sticky or damaged slide fastener. Apply wax or graphite to sticky zipper or refer to higher maintenance for repair.	Excessive damage to the slide fastener.
13	Before	Fleece Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, and binding). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
14	During	Fleece Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.

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		ITEM TO BE		EQUIPMENT NOT
ITEM		CHECKED OR		READY/AVAILABLE
NO.	INTERVAL	SERVICED	PROCEDURE	IF
NU.	INTERVAL	SERVICED		
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, and binding). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.
15	After	Fleece Jacket	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, and binding). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.
16	Before	Wind Jacket	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.

	Tac				EQUIPMENT NOT
ITEM		ITEM TO BE			EQUIPMENT NOT READY/AVAILABLE
ITEM NO.		CHECKED OR		PROCEDURE	
NO.	INTERVAL	SERVICED			IF
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, and canon clip. Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
17	During	Wind Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
18	After	Wind Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching.	Excessive cuts, frays, or other damage to the fabric or stitching.

ITEM		ITEM TO BE CHECKED OR			EQUIPMENT NOT READY/AVAILABLE
NO.	INTERVAL	SERVICED		PROCEDURE	IF
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
19	Before	Mid-Weight Jacket (Soft)	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
20	During	Mid-Weight Jacket (Soft)	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level	Excessive cuts, frays, or other damage to the fabric or stitching.

		ITEM TO BE	Intenance checks and Services - conti	EQUIPMENT NOT
ITEM		CHECKED OR		READY/AVAILABLE
NO.	INTERVAL	SERVICED	PROCEDURE	IF
NO.		JERVICED		
			 maintenance for repair. Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock and cannon clip). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.
21	After	Mid-Weight Jacket (Soft)	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, eyelet, grommet and cannon clip). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.

		ITEM TO BE		EQUIPMENT NOT
ITEM NO.	INTERVAL	CHECKED OR SERVICED	PROCEDURE	READY/AVAILABLE IF
22	Before	Mid-Weight Trousers (Soft)	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.
23	During	Mid-Weight Trousers (Soft)	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and 	Hardware is cracked, worn, or otherwise damaged.

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ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED		PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
				cannon clip). Refer to higher maintenance for repair.	
24	After	Mid-Weight Trousers (Soft)	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
25	Before	Extreme Cold/Wet Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware	Hardware is cracked, worn, or otherwise

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED		PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
				(slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	damaged.
26	During	Extreme Cold/Wet Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
27	After	Extreme Cold/Wet Jacket	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.

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		ITEM TO BE		ance checks and services – contin	EQUIPMENT NOT
ITEM		CHECKED OR			READY/AVAILABLE
NO.	INTERVAL	SERVICED		PROCEDURE	IF
NO.		SERVICED	2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair	Hardware is cracked, worn, or otherwise damaged.
28	Before	Extreme Cold/Wet Trousers	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
29	During	Extreme Cold/Wet Trousers	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level	Excessive cuts, frays, or other damage to the fabric or stitching.

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		ITEM TO BE	Intenance checks and services – contin	EQUIPMENT NOT
ITEM NO.	INTERVAL	CHECKED OR SERVICED	PROCEDURE	READY/AVAILABLE IF
NU.	INTERVAL	SERVICED	maintenance for repair.	IF
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.
30	After	Extreme Cold/Wet Trousers	 Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair. 	Excessive cuts, frays, or other damage to the fabric or stitching.
			 Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair. 	Hardware is cracked, worn, or otherwise damaged.

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ITEM		ITEM TO BE CHECKED OR			EQUIPMENT NOT READY/AVAILABLE
NO.	INTERVAL	SERVICED		PROCEDURE	IF
31	Before	Extreme Cold Parka	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
32	During	Extreme Cold Parka	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher	Hardware is cracked, worn, or otherwise damaged.

	Table 1. Preventive Maintenance Checks and Services – Continued.						
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED		PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF		
			mainte	enance for repair.			
33	After	Extreme Cold Parka	dama Refer	x for cuts, frays, or other ge to the fabric or stitching. to higher level enance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.		
			otherv (slide thong: barrel canno	k for cracked, worn, or vise damaged hardware fasteners, slide fastener s, tape hook and loop, lock, snap fasteners and n clip). Refer to higher enance for repair.	Hardware is cracked, worn, or otherwise damaged.		
34	Before	Extreme Cold Trousers	dama Refer	<pre>c for cuts, frays, or other ge to the fabric or stitching. to higher level enance for repair.</pre>	Excessive cuts, frays, or other damage to the fabric or stitching.		
			otherv (slide	k for cracked, worn, or vise damaged hardware fasteners, slide fastener s, tape hook and loop,	Hardware is cracked, worn, or otherwise damaged.		

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED		PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	INTERVAL	OLIVIOLD		barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	
35	During	Extreme Cold Trousers	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	Hardware is cracked, worn, or otherwise damaged.
36	After	Extreme Cold Trousers	1.	Check for cuts, frays, or other damage to the fabric or stitching. Refer to higher level maintenance for repair.	Excessive cuts, frays, or other damage to the fabric or stitching.
			2.	Check for cracked, worn, or	Hardware is cracked,

ITEM		ITEM TO BE CHECKED OR		EQUIPMENT NOT READY/AVAILABLE
NO.	INTERVAL	SERVICED	PROCEDURE	IF
			otherwise damaged hardware (slide fasteners, slide fastener thongs, tape hook and loop, barrel lock, snap fasteners and cannon clip). Refer to higher maintenance for repair.	worn, or otherwise damaged.

CHAPTER 5 SUPPORTING INFORMATION FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III) SUPPORTING INFORMATION REFERENCES

SCOPE

This work package lists related field manuals, forms, technical manuals, and miscellaneous publications.

MISCELLANEOUS PUBS/FORMS

AR 700-138 CTA 50-970	Army Logistics Readiness and Sustainability Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items),
CTA 50-909	Field and Garrison Furnishings and Equipments
CTA 8-100	Army Medical Department Expendable/Durable Items
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual
FM 3-11.2	Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, and Nuclear Contamination Avoidance
FM 4-25.11	First Aid Information
SF 368	Product Quality Deficiency Report

TM 10-8415-236-10 0012 COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

INTRODUCTION

Scope

This work package lists COEI and BII for the ECWCS GEN III to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the ECWCS GEN III. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the ECWCS GEN III in operation, operate it and to do emergency repairs. Although shipped separately packaged, BII must be with the ECWCS GEN III during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI List and BII List

Column (1) Illus Number. Gives you the reference number of the item listed.

Column (2) National Stock Number (NSN) and illustration. Identifies the stock number of the item to be used for requisitioning purposes and provides an illustration of the item.

Column (3) Description, Part Number/(CAGEC). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses). Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment.

Column (5) U/I. Unit of Issue (U/I). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) Qty Rqr. Indicates the quantity required.

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
1		UNDERSHIRT, LIGHT-WEIGHT (SILK-WEIGHT), COLD WEATHER, DESERT SAND, GEN III, PGC: 03628, GL/PD-06-01 (81337)	N/A	ea	1
	8415-01-547-6577 8415-01-547-6580 8415-01-547-6680 8415-01-538-7780 8415-01-538-7780 8415-01-538-7785 8415-01-538-7785 8415-01-538-7787 8415-01-538-7787 8415-01-538-7791 8415-01-538-7795 8415-01-547-6789 8415-01-547-6789 8415-01-547-7008	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-REGULAR MEDIUM-LONG LARGE-REGULAR LARGE-REGULAR X-LARGE-CONG X-LARGE-CNOG X-LARGE-X-LONG XX-LARGE-REGULAR XX-LARGE-X-LONG XX-LARGE-X-LONG XX-LARGE-X-LONG			

Table 1. Components of End Item List (COEI).

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
2	2	DRAWERS, LIGHT-WEIGHT (SILK- WEIGHT), COLD WEATHER, DESERT SAND, GEN III, PGC: 03629, GL/PD-06-14 (81337)	N/A	ea	1
	8415-01-547-8674 8415-01-547-8675	X-SMALL-SHORT X-SMALL-REGULAR			
	8415-01-547-8683	SMALL-SHORT			
	8415-01-538-8468	SMALL-REGULAR			
	8415-01-547-8684	SMALL-LONG			
	8415-01-538-8472	MEDIUM-REGULAR			
	8415-01-547-8698 8415-01-538-8474	MEDIUM-LONG LARGE-REGULAR			
	8415-01-538-8477	LARGE-LONG			
	8415-01-538-8482	X-LARGE-REGULAR			
	8415-01-538-8486	X-LARGE-LONG			
	8415-01-547-8728	X-LARGE-X-LONG			
	8415-01-547-8747	XX-LARGE-REGULAR			
	8415-01-547-8749	XX-LARGE-LONG			
	8415-01-547-8755	XX-LARGE-X-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
3	3	DRAWERS, MID-WEIGHT, COLD WEATHER, DESERT SAND, GEN III, PGC: 03261, GL/PD-06-15 (81337)	N/A	Ea	1
	8415-01-545-7672	X-SMALL-SHORT			
	8415-01-545-7676 8415-01-545-7717	X-SMALL-REGULAR SMALL-SHORT			
	8415-01-538-8727	SMALL-REGULAR			
	8415-01-545-7768	SMALL-LONG			
	8415-01-538-8730	MEDIUM-REGULAR			
	8415-01-545-7810 8415-01-538-8745	MEDIUM-LONG LARGE-REGULAR			
	8415-01-538-8745	LARGE-REGULAR LARGE-LONG			
	8415-01-538-8750	X-LARGE-REGULAR			
	8415-01-538-8751	X-LARGE-LONG			
	8415-01-545-7960	X-LARGE-X-LONG			
	8415-01-545-7965	XX-LARGE-REGULAR			
	8415-01-545-7966	XX-LARGE-LONG			
	8415-01-545-7968	XX-LARGE-X-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
4		SHIRT, MID-WEIGHT, COLD WEATHER, DESERT SAND, GEN III, PGC: 03260, GL/PD-06-02 (81337)	N/A	ea	1
	8415-01-546-0124 8415-01-546-0128 8415-01-546-0160 8415-01-538-8598 8415-01-538-8614 8415-01-538-8614 8415-01-538-8701 8415-01-538-8705 8415-01-538-8705 8415-01-538-8711 8415-01-538-8711 8415-01-546-0362 8415-01-546-0369 8415-01-546-0370	X-SMALL-SHORT X-SMALL-REGULAR SMALL-SHORT SMALL-LONG MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR LARGE-LONG X-LARGE-REGULAR X-LARGE-LONG XX-LARGE-X-LONG XX-LARGE-REGULAR XX-LARGE-X-LONG XX-LARGE-X-LONG XX-LARGE-X-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
5	5 →	JACKET, FLEECE WEIGHT, COLD WEATHER, FOLIAGE GREEN, GEN III, PGC: 03253, GL/PD-06-03 (81337)	N/A	ea	1
	$\begin{array}{c} 8415\text{-}01\text{-}546\text{-}6712\\ 8415\text{-}01\text{-}546\text{-}6713\\ 8415\text{-}01\text{-}546\text{-}6722\\ 8415\text{-}01\text{-}538\text{-}6739\\ 8415\text{-}01\text{-}546\text{-}6721\\ 8415\text{-}01\text{-}546\text{-}742\\ 8415\text{-}01\text{-}538\text{-}6742\\ 8415\text{-}01\text{-}538\text{-}6752\\ 8415\text{-}01\text{-}538\text{-}6752\\ 8415\text{-}01\text{-}538\text{-}6758\\ 8415\text{-}01\text{-}538\text{-}6768\\ 8415\text{-}01\text{-}536\text{-}6758\\ 8415\text{-}01\text{-}546\text{-}7550\\ 8415\text{-}01\text{-}546\text{-}7550\\ 8415\text{-}01\text{-}546\text{-}7550\\ 8415\text{-}01\text{-}546\text{-}7562\\ \end{array}$	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-LONG MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR LARGE-REGULAR X-LARGE-REGULAR X-LARGE-LONG X-LARGE-X-LONG X-LARGE-LONG X-LARGE-LONG X-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
6		JACKET, WIND, COLD WEATHER, UNIVERSAL CAMOUFLAGE PATTERN, GEN III, PGC: 03249, GL/PD-06-04 (81337)	N/A	ea	1
	$\begin{array}{c} 8415\text{-}01\text{-}546\text{-}8657\\ 8415\text{-}01\text{-}546\text{-}8667\\ 8415\text{-}01\text{-}546\text{-}8745\\ 8415\text{-}01\text{-}546\text{-}8758\\ 8415\text{-}01\text{-}538\text{-}6067\\ 8415\text{-}01\text{-}538\text{-}6087\\ 8415\text{-}01\text{-}538\text{-}6082\\ 8415\text{-}01\text{-}538\text{-}6082\\ 8415\text{-}01\text{-}538\text{-}6080\\ 8415\text{-}01\text{-}538\text{-}6089\\ 8415\text{-}01\text{-}538\text{-}6089\\ 8415\text{-}01\text{-}546\text{-}8820\\ 8415\text{-}01\text{-}546\text{-}8828\\ 8415\text{-}01\text{-}546\text{-}8829\\ 8415\text{-}01\text{-}546\text{-}8829\\ 8415\text{-}01\text{-}546\text{-}8834\\ \end{array}$	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-REGULAR MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR X-LARGE-REGULAR X-LARGE-REGULAR X-LARGE-REGULAR XX-LARGE-REGULAR XX-LARGE-REGULAR XX-LARGE-LONG XX-LARGE-ACONG			

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(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
7		JACKET, SOFT SHELL, COLD WEATHER, UNIVERSAL CAMOUFLAGE PATTERN, GEN III, PGC: 03254, GL/PD-06-05 (81337)	N/A	ea	1
	$\begin{array}{c} 8415-01-546-8888\\ 8415-01-546-8890\\ 8415-01-546-8953\\ 8415-01-538-6808\\ 8415-01-538-6813\\ 8415-01-536-6813\\ 8415-01-538-6813\\ 8415-01-538-6823\\ 8415-01-538-6823\\ 8415-01-538-6823\\ 8415-01-536-6823\\ 8415-01-546-8991\\ 8415-01-546-9197\\ 8415-01-546-9198\\ 8415-01-546-9201\\ \end{array}$	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-REGULAR MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR X-LARGE-REGULAR X-LARGE-LONG X-LARGE-AEGULAR X-LARGE-REGULAR XX-LARGE-REGULAR XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
8	8	TROUSERS, SOFT SHELL, COLD WEATHER, UNIVERSAL CAMOUFLAGE PATTERN, GEN III, PGC: 03255, GL/PD-06-16 (81337)	N/A	ea	1
	8415-01-546-9484	X-SMALL-SHORT			
	8415-01-546-9498	X-SMALL-REGULAR			
	8415-01-546-9706	SMALL-SHORT SMALL-REGULAR			
	8415-01-538-6764 8415-01-546-9707	SMALL-REGULAR SMALL-LONG			
	8415-01-538-6766	MEDIUM-REGULAR			
	8415-01-546-9724	MEDIUM-LONG			
	8415-01-538-6771	LARGE-REGULAR			
	8415-01-538-6773	LARGE-LONG			
	8415-01-538-6875	X-LARGE-REGULAR			
	8415-01-538-7008	X-LARGE-LONG X-LARGE-X-LONG			
1	8415-01-546-9883 8415-01-546-9912	X-LARGE-X-LONG XX-LARGE-REGULAR			
	8415-01-546-9912 8415-01-546-9917	XX-LARGE-LONG			
	8415-01-546-9921	XX-LARGE-X-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
9	8415-01-547-5739 8415-01-547-5739 8415-01-547-5741 8415-01-547-5763 8415-01-547-5763 8415-01-538-7001 8415-01-538-7012 8415-01-538-7761 8415-01-538-7761 8415-01-538-7767 8415-01-538-7769 8415-01-538-7769 8415-01-538-7769 8415-01-547-6146 8415-01-547-6224 8415-01-547-6226 8415-01-547-6226	JACKET, EXTREME COLDWET WEATHER, UNIVERSAL CAMOUFLAGE PATTERN, GEN III, PGC: 03256, GL/PD-06-06 (81337) X-SMALL-SHORT X-SMALL-REGULAR SMALL-SHORT SMALL-REGULAR SMALL-LONG MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR X-LARGE-REGULAR X-LARGE-LONG X-LARGE-X-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG	N/A	ea	1

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
10		TROUSERS, EXTREME COLD/WET WEATHER, UNIVERSAL CAMOUFLAGE PATTERN, GEN III, PGC:03257, GL/PD-06-17 (81337)	N/A	ea	1
	$\begin{array}{c} 8415\text{-}01\text{-}547\text{-}3662\\ 8415\text{-}01\text{-}547\text{-}3674\\ 8415\text{-}01\text{-}547\text{-}4171\\ 8415\text{-}01\text{-}538\text{-}6672\\ 8415\text{-}01\text{-}538\text{-}6680\\ 8415\text{-}01\text{-}538\text{-}6680\\ 8415\text{-}01\text{-}538\text{-}6677\\ 8415\text{-}01\text{-}538\text{-}6679\\ 8415\text{-}01\text{-}538\text{-}6681\\ 8415\text{-}01\text{-}538\text{-}6683\\ 8415\text{-}01\text{-}538\text{-}6683\\ 8415\text{-}01\text{-}547\text{-}4234\\ 8415\text{-}01\text{-}547\text{-}4234\\ 8415\text{-}01\text{-}547\text{-}4234\\ \end{array}$	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-REGULAR MEDIUM-LONG LARGE-REGULAR LARGE-LONG X-LARGE-REGULAR X-LARGE-X-LONG X-LARGE-X-LONG X-LARGE-REGULAR			
	8415-01-547-4250 8415-01-547-4303	XX-LARGE-LONG XX-LARGE-X-LONG			

0012-12

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
11		PARKA, EXTREME COLD WEATHER (LOFT), URBAN GRAY, ECWCS GEN III, PGC: 03258, GL/PD-06-07 (81337)	N/A	ea	1
	$\begin{array}{c} 8415\text{-}01\text{-}545\text{-}8544\\ 8415\text{-}01\text{-}545\text{-}8662\\ 8415\text{-}01\text{-}545\text{-}8642\\ 8415\text{-}01\text{-}545\text{-}8642\\ 8415\text{-}01\text{-}545\text{-}8661\\ 8415\text{-}01\text{-}538\text{-}6289\\ 8415\text{-}01\text{-}538\text{-}6320\\ 8415\text{-}01\text{-}538\text{-}6300\\ 8415\text{-}01\text{-}538\text{-}6310\\ 8415\text{-}01\text{-}538\text{-}6312\\ 8415\text{-}01\text{-}538\text{-}6315\\ 8415\text{-}01\text{-}538\text{-}6315\\ 8415\text{-}01\text{-}545\text{-}9542\\ 8415\text{-}01\text{-}545\text{-}9562\\ 8415\text{-}01\text{-}545\text{-}9582\\ 8415\text{-}01\text{-}545\text{-}9610\\ \end{array}$	X-SMALL-SHORT X-SMALL-REGULAR SMALL-SHORT SMALL-LONG MEDIUM-REGULAR MEDIUM-LONG LARGE-REGULAR LARGE-REGULAR X-LARGE-REGULAR X-LARGE-LONG X-LARGE-LONG X-LARGE-LONG X-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG			

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(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
12	12	TROUSERS, EXTREME COLD WEATHER (LOFT), URBAN GRAY, GEN III, PGC: 03259, GL/PD-06-18 (81337)	N/A	ea	1
	8415-01-545-9907 8415-01-545-9914 8415-01-545-9955 8415-01-545-9958 8415-01-545-9958 8415-01-546-0019 8415-01-538-6704 8415-01-538-6707 8415-01-538-6709 8415-01-538-6709 8415-01-546-0017 8415-01-546-0117 8415-01-546-0118 8415-01-546-0119	X-SMALL-SHORT X-SMALL-REGULAR SMALL-REGULAR SMALL-REGULAR MEDIUM-LONG MEDIUM-LONG LARGE-REGULAR X-LARGE-REGULAR X-LARGE-REGULAR X-LARGE-NCONG XX-LARGE-REGULAR XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG XX-LARGE-LONG			

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number (NSN) and Illustration	Description, Part Number/(CAGEC)	Usable on Code	U/I	Qty Rqr
13	- 13	HOOD, STORABLE COMPONENT PART OF THE MID- WEIGHT COLD WEATHER AND EXTREME COLDWET WEATHER JACKETS (REFERENCE ONLY, NON-PROCURABLE ITEM)	N/A	N/A	N/A
14	14	SUSPENDERS, TROUSER, SOFT SHELL, COLD WEATHER (GEN III) GL/PD-08-73 (81337)	N/A	ea	1
	8440-01-563-7025 8440-01-563-7026 8440-01-563-7027 8440-01-563-7029	SIZE/(LENGTH IN INCHES) SHORT (47.5) REGULAR (49.5) LONG (51.5) X-LONG (53.5)			

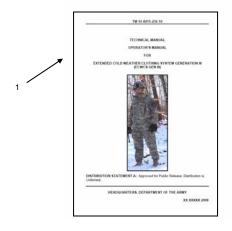


Table 2. Basic Issue Items (BII).

(1)	(2)	(3)	(4)	(5)	(6)
lllus Number	National Stock Number	Description, Part Number/(CAGEC)	Usable on Code	U/I	QTY Rqr
1	N/A	TECHNICAL MANUAL, TM 10-8415-236-10, OPERATOR'S MANUAL, EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III)	N/A	ea	1

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0012

TM 10-8415-236-10 EXPENDABLE AND DURABLE ITEMS LISTS

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the ECWCS GEN III. This list is for information only and is not authority to requisition the listed items. These items are authorized to your by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), CTA 50-909, Field and Garrison Furnishings and Equipments or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) Item No. This number is assigned to the entry in the list and is references in the narrative instructions to identify the item (e.g., Use brake fluid (WP 0098, item 5))

Column (2) Level. This column identifies the lowest level of maintenance that requires the listed item (include as applicable: C = Crew, O = Service/AMC, F = Field/ASB, H = Below Depot, D = Depot).

Column (3) National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) Item Name, Description, Part Number (CAGEC). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (5) U/I. Unit of Issue (U/I) code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

(1)	(2)	(3)	(4)	(5)
Item		National Stock		
No.	Level	Number (NSN)	Item Name, Description, Part Number/(CAGEC)	U/I
1	С	8315-01-222-0680	Kit, Sewing, A-A-55190 (58536)	EA
2	С	GSA Supply Catalog	Spray, Revivex®, 5 or 10 oz.	EA
3	С	Local Purchase	Nikwax®, TX Direct Wash-IN, 10 oz	BT

Table 1. Expendable and Durable Items List

END OF WORK PACKAGE

By Order of the Secretary of the Army:

GEORGE W. CASEY, JR. General, United States Army Chief of Staff

Official:

MORROW

 JOYCE E. MORROW
 Administrative Assistant to the Secretary of the Army 0816202

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27. Text:

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