

ARMY TOPOGRAPHY
Climatic, Hydrological, and Topographic Services

Summary. This supplement establishes policies and procedures for the Forces Command Mapping, Charting and Geodesy (MC&G) Program and delineates staff responsibility for MC&G product requirements, procedures, map stockage, and distribution.

Applicability. This supplement applies to all Active Army, Army National Guard, and U.S. Army Reserve elements assigned to FORSCOM.

Supplementation. Commanders will not alter this supplement without prior approval from Director of Intelligence, G2, HQ FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

Changes. Changes to this supplement are not official unless they are authenticated by the Director, Command, Control, Communications, and Computers, G6, HQ FORSCOM.

Suggested improvements. The proponent office of this supplement is the Director of Intelligence, G2, HQ FORSCOM. Users are invited to send comments and

suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

FOR THE COMMANDER:

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DISTRIBUTION of this supplement is intended for command levels B, C, D, and E to HQ FORSCOM, FORSCOM installations, FORSCOM units on non-FORSCOM installations, FORSCOM Op Actv, HQ FORSCOM LO, USAR, CONUSA, and ARNG.

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Army Regulation 115-11, dated 30 November 1993 is supplemented as follows:

Page 1, paragraph 1-1 add the following: The FORSCOM supplement defines FORSCOM policies, procedures, and responsibilities involving MC&G products, topographic support, map stockage, map allowance, and distribution. This supplement augments AR 115-11.

Page 2, paragraph 1-4, add subparagraphs n through v:

n. FORSCOM Director of Intelligence, G2 will:
(1) Exercise FORSCOM General Staff proponenty for topographic functions and provide policy and planning guidance, in coordination with other FORSCOM staffs, for integration of terrain

intelligence into FORSCOM intelligence applications or doctrinal developments.

(2) Maintain liaison with Director, Defense Mapping Agency, (DMA); subordinate units and Unified Commands' MC&G staffs.

(3) Supervise FORSCOM topographic operations in support of training, exercises, maneuvers and contingency operations.

(4) Identify and prioritize for:

(a) FORSCOM geographic area requirements for MC&G products to support OPLANS and CONPLANS for the DMA requirements program.

(b) FORSCOM topographic operations requirements.

(5) Function as the FORSCOM point of contact for FORSCOM topographic support to all Unified Commands.

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(6) Establish and monitor the priority system for validation, production, maintenance and retention of MC&G products in the DOD map supply system to support FORSCOM missions.

(7) Submit validated MC&G requirements, beyond the capabilities of FORSCOM topographic units through USACOM to the DMA for programming and accomplishment.

(8) Monitor the responsiveness of Army elements to FORSCOM topographic programs.

(9) Monitor readiness training, force structure, and stationing of FORSCOM topographic units.

(10) Assist U.S. Army Engineer School in the development and fielding of topographic equipment.

(11) Monitor and assist in evaluating the technical portions of topographic unit EXEVALS.

(12) Exercise operational control of the 132d Engineer Detachment (Planning & Control) in Garrison.

(13) Operate the Digital Elevation Data Dubbing Facility (DEDDF) in support of the FIREFINDER RADAR system. Using the DEDDF, dub DMA FIREFINDER Elevation Data (FFED) on to Tape Transport Units (TTU). See Appendix F, for FFED ordering procedures.

(14) Coordinate FORSCOM reviews of DMA standard and prototype products and product reviews with subordinates.

(15) Conduct, via the 132d Engr Det, annual assistance visits to all FORSCOM topographic units.

(16) Provide non-standard digital mapping, terrain analysis, and Geographic Information System (GIS) support to HQ, FORSCOM staff.

o. FORSCOM Director of Operations, G3 will:

(1) Identify to the Director of Intelligence, G2, all map and chart requirements necessary to support planning for and execution of exercises. Identification of products must not be later than 6 months (180) days prior to the deployment of forces to an exercise. The G2 will provide staff assistance as required for development of MC&G requirements.

(2) Identify to the Director of Intelligence, G2, all map and chart requirements necessary to support FORSCOM OPLANS and CONPLANS.

(3) Determine priorities for topographic support of operations and plans in coordination with the Director of Intelligence.

(4) Task FORSCOM topographic assets to support FORSCOM survey, terrain analysis, and map reproduction requirements.

(5) Task FORSCOM units for evaluator support of topographic EXEVALS.

(6) Monitor unit training, readiness, and deployment.

(7) Coordinate force structure and stationing of Active and Reserve Component forces.

(8) Recommend Table of Organization and Equipment (TOE) and maintain Modified Tables of Organization and Equipment (MTOE) for subordinate units.

(9) Develop Time Phased Force Deployment Lists (TPFDL) for supported OPLANS.

(10) Provide responsibility for the fielding of topographic equipment.

p. FORSCOM Director of Logistics, G4 will:

(1) Coordinate the policy and procedures for the distribution of standard map products.

(2) Monitor FORSCOM DODAAC standard map accounts.

(3) Monitor readiness reporting, training, force structure, stationing, distribution and redistribution of equipment.

q. FORSCOM Deputy Chief of Staff for Personnel and Installation Management will:

(1) Manage personnel strengths of FORSCOM topographic units.

(2) Coordinate topographic personnel augmentation requests.

r. FORSCOM Director of Command, Control, Communications, and Computers, G6, is responsible for FORSCOM digital topographic data transmission resources, policies and procedures.

s. FORSCOM Staff offices will:

(1) Coordinate with the FORSCOM G2 when selecting CONUS training areas which may lay outside of military reservations and not indicated in the FORSCOM 5-Year Exercise Plan.

(2) Designate a primary and alternate point of contact for matters relating to MC&G within their respective staffs. This designation will be provided in writing to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000 by 15 January of each year and will be updated as necessary.

t. FORSCOM subordinate commanders and U.S. Army Reserve Command (USARC) will:

(1) Develop supplemental guidance to ensure adequate identification and consideration of topographic requirements during appropriate phases of operations and training.

(2) Consolidate topographic requirements for periodic submission to HQ FORSCOM in support of the DOD requirements program.

(3) Ensure that requisitions for topographic products required to support planning, training, and operations are properly submitted as described in Chapter 2, Section III, and Appendix C.

(4) Develop and maintain plans for receipt and employment of assigned topographic units.

(5) Designate a primary and alternate point of contact for matters relating to MC&G within their respective staffs. This designation will be provided in writing to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000 by 15 January of each year and will be updated as necessary.

(6) Consolidate topographic support requirements that exceed organic capabilities and forward them to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

(7) Identify training area MC&G requirements in the Periodic Requirements submission.

(8) Ensure all MC&G exercise requirements are identified 6 months prior to each exercise to the supporting map depot.

u. FORSCOM Subordinate Units:

(1) IAW respective Annex Ms of controlling OPLANs or CONPLANS, establish and maintain unit basic loads (UBL) of MC&G products to support wartime missions by OPLAN or CONPLAN as required. Commanders will further ensure that the unit basic loads of MC&G products are:

(a) Inventoried at least annually for completeness and accuracy.

(b) Packaged and stored separately from other MC&G products in the unit.

(2) Provide a copy of the stock plan to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

(3) Submit topographic production status reports indicated in Chapter 2, Section III, if the command has topographic units assigned.

Page 2, paragraph 1-5, add subparagraphs d through f:

d. FORSCOM topography assists FORSCOM's missions and objectives and executes the Army portion of the USACOM MC&G and terrain analysis programs.

(1) FORSCOM EAC topographic assets will provide topographic planning and control, terrain analysis, geodetic survey, and nonstandard product support to headquarters above corps level, and Army units assigned outside Army corps.

(2) Corps topographic companies primary mission is to provide topographic support to its respective Army corps headquarters and all Army units attached to the corps.

(3) Division terrain analysis detachments will provide terrain analysis to its respective Army division.

e. FORSCOM units will coordinate through FORSCOM MC&G officer with requirements for periodic maintenance to existing MC&G products or

the development of new MC&G products. FORSCOM units are not authorized to contact DMA directly. DMA will refer all direct inquiries to the appropriate CINC'S and inform CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000 as required.

f. FORSCOM topographic units develop databases for geographic area only according to mission planning and operational requirements. Copies of all products (both hard and soft copy) will be provided to the FORSCOM database library, located at the 132d Engineer Detachment.

(1) Forward products to Commander, FORSCOM ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-5000.

(2) All FORSCOM topographic units will submit annual listings of database holdings to Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-5000 NLT 15 October each year.

(a) Terrain databases will include: Product type and date, coverage, classification, producer, media, scale, date and origin of source material(s), confidence in product, format (color series, raster vs vector), number of copies on hand.

(b) Geodetic databases will include: horizontal and vertical datum, order of survey, latitude, longitude, establishing agency, and monument data.

Page 3, paragraph 2-3, add the following:

Forward any topographic requirement in support of a new or developmental system to CDR, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000. FORSCOM will forward the requirement to U.S. Army Topographic Engineering Center, Digital Concepts and Analysis Division, ATTN: CETEC-PD-D, 7701 Telegraph Road, Fort Belvoir, VA 22315-3864.

Page 3, paragraph 2-4, add subparagraphs c through d:

c. Technical advice or assistance. Contact Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-5000.

d. Training. The DMS catalog is available from Director, Defense Mapping School, ATTN: HR-DMSO, 5825 21st Street STE 106, Fort Belvoir, VA 22060-5921. Requirements for Mobile Training Teams (MTT) must be submitted to Director, Defense Mapping School, ATTN: HR-DMSO, 5825 21st Street STE 106, Fort Belvoir, VA 22060-5921. Copy furnish MTT requests to Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-6000. Budget constraints may require requesters to provide funding for MTT projects.

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Page 4, paragraph 2-5.d.(2)(a), add the following:

HQ FORSCOM will notify potential deploying units to initiate planning procedures including identification of required MC&G products. Identified FORSCOM units will determine MC&G product requirements and send a consolidated MC&G requirements request, including delivery date and address, through their respective Army Component Command to the Unified CINC and DMA. CONUS FORSCOM Subordinate Commands will send requirements to CDR, FORSCOM, ATTN: AFIN-OD/AFOP-OC, Fort McPherson, GA 30330-6000 for validation and subsequent action. FORSCOM UNITS WILL NOT REQUEST CRISES SUPPORT DIRECTLY FROM DMA.

Page 4, paragraph 2-5.d.(2)(b), add the following:

CONUS requirements that were not submitted in the Biennial Requirements Report will be justified and submitted to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000, for validation, prioritization and appropriate action.

Page 4, paragraph 2-6, add the following:

All requests for special products and services will be forwarded to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000, (copy furnished AFIN-OD-132D). Product request procedures are addressed in Appendix D.

Page 5, paragraph 2-7, add subparagraphs d through h:

d. Only authorized requisitioners are permitted to obtain standard/nonstandard topographic products from the Army direct support unit (DSU) or activity that provides logistical support. Products are to be used for official military purposes only.

e. Active Component Distribution Support: FORSCOM major subordinate commands and assigned units, divisions, separate brigades, regiments, groups, and battalions not attached or operational control (OPCON) to a division or brigade, regiment or group will request maps from their supporting logistical DSU or activity.

f. Non-Army units will requisition MC&G products through their own chain of command.

g. Authorized requisitioners will consolidate, validate, and promptly forward requirements from subordinate units or elements to the appropriate supply source.

h. For units located at installations not containing a full complement of TOE supporting operations, the installation will perform the equivalent

DS/GS function for tenant units or activities. Units request and receive maps from the supporting installation Directorate of Logistics (DOL). Reserve Component units will request and receive support from their supporting installations in accordance with AR 5-9, Intraservice Support Installation Area Coordination.

Page 5, paragraph 2-8. Add the following:

No FORSCOM unit is authorized to enter into or negotiate a topographic agreement with any foreign government. Any request for such an agreement will be sent to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

Page 5, paragraph 2-9, add subparagraphs f through g to read:

f. NATO classified maps must be handled separately from U.S. classified maps. These maps will only be shipped to an approved NATO registry point.

g. FORSCOM topographic units using automation equipment will follow the procedures defined in AR 380-19, Automation Security, to protect all sensitive defense information processed by automation resources, regardless of application.

Page 5, paragraph 2-10, add the following:

FORSCOM topographic units will report IAW guidance established in Appendix E.

Page 6, paragraph 2-22, add subparagraphs g through h:

g. The FORSCOM MC&G database library is maintained by the 132d Engineer Detachment, Fort Gillem, GA 30050.

h. All FORSCOM topographic units will submit annual listings of database holdings to Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-5000 NLT 15 October each year.

Page 7, paragraph 2-23, add the following:

All FORSCOM topographic unit evaluation support procedures and policies will be processed through Commander, FORSCOM, ATTN: AFOP-OT, Fort McPherson, GA 30330-6000, and copy furnish Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort Gillem, GA 30050-5000 for coordination.

Page 7, paragraph 2-24. Amend subparagraphs b and d to read:

b. Submit changes to topographic organizations (TOE/MTOE) on DA Form 2028, through Commander, FORSCOM, ATTN: AFIN-OD-132D, AFOP-FI, Fort McPherson, GA 30330-6000, to

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Commandant, U.S. Army Engineer School, ATTN: ATSE-CDO, Fort Leonard Wood, MO 65473-5000.

d. Submit suggestions for changes to topographic doctrine and equipment through Commander, FORSCOM, ATTN: AFIN-OD-132D, Fort McPherson, GA 30330-6000, to Commandant, U.S. Army Engineer School, ATTN: ATSE-CDM, Fort Leonard Wood, MO 65473-5000.

Page 8, Appendix A, Section II, add the following:

AR 5-9

(with FORSCOM Supplement to AR 5-9) Intraservice Support Installation Area Coordination. (Cited in para C-5.b(2))

AR 115-11

Army Topography. (Cited in para 1-1, and 1-4u(3))

AR 380-19

Information Systems Security. (Cited in para 2-9g)

AR 710-2

Inventory Management Supply Policy Below the Wholesale Level. (Cited in para C-5.e)

DA PAM 710-2-1

Using Unit Supply System (Manual Procedures).

FM 101-5

Staff Organization and Operations

FM 101-10-1/2

Staff Officers' Field Manual - Organizational, Technical, and Logistical Data Planning Factors (Volume 2). (Cited in Appendix G)

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Page 9, Appendix B, add Table B-2.

Table B-2
FORSCOM Peacetime Topographic Support and Staff Relationships

COMMAND	TOPOGRAPHY STAFF POC	SUPPORTING TOPOGRAPHIC UNIT
Forces Command	Commander U.S. Army Forces Command ATTN: AFIN-OD Ft McPherson, GA 30330-6000 (404) 669 (DSN367)-5903	Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)-5472/5904 and FORSCOM assigned EAC topographic units
Third U.S. Army	Commander Third U.S. Army/ARCENT ATTN: AFRD-DS-T Ft McPherson, GA 30330-7000 (404) 752 (DSN572)-4133	Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)-5472/5904 and FORSCOM assigned EAC topographic units
I Corps	Commander I Corps ATTN: AFZH-EN Ft Lewis, WA 98433-5000 (206) 967 (DSN357)-0054	Commander 64th Engr Det (TA) Ft Lewis, WA 98433-5000 (206) 967 (DSN357)-2770/7205 Commander 302d Engr Co (USAR) Corpus Christi, TX 78419-5122 (512) 939-7515
III Corps	Commander III Corps ATTN: AFZF-EN Ft Hood, TX (817) 287 (DSN737)-4594	Commander 555th Engr Co Ft Hood, TX (817) 287 (DSN737)-7992
XVIII Airborne Corps	Commander XVIII ABN Corps ATTN: AFZA-EN Ft Bragg, NC 28307-5000 (910) 396 (DSN236)-4713	Commander 175th Engr Co Ft Bragg, NC 28307 (910) 396 (DSN236)-5339
1st Cavalry Division	Commander 1st Cavalry Div ATTN: ATFZ-GB-TA-123 Ft Hood, TX 76544-5000 (817) 287 (DSN737)-6138/3532	Commander 123d/557th Engr Dets Ft Hood, TX 76544-5000 (817) 287 (DSN737)-6138/3532
1st Infantry Division (Mech) (Rear) -- 1st Bde	Commander HQ USEUR and 7th Army ATTN: AEAEN-MET-ED (60th P&C) Unit 29351 APO AE 09014 DSN 370-7587 (for CONUS-based tng rqmts:) Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)-5472/5904	Commander 320th Engr Co CMR 470 APO AE 09165 06-181-88 (DSN 322)-9042/9053
1st Armored Division (Rear) -- 3d Bde	Commander HQ USEUR and 7th Army ATTN: AEAEN-MET-ED (60th P&C) Unit 29351 APO AE 09014 DSN 370-7587 for CONUS-based training requirements: Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)- 5472/5904	Commander 320th Engr Co CMR 470 APO AE 09165 06-181-88 (DSN 322)-9042/9053
3d Infantry Division (Mech)	Commander 3d Inf Div (Mech) ATTN: AFZP-SSD-T Ft Stewart, GA 31313-5000 (912) 767 (DSN870)-1819/2455	Commander 148th/72d Engr Det Ft Stewart, GA 31313-5000 (912) 767 (DSN870)-1819/2455

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Table B-2

FORSCOM Peacetime Topographic Support and Staff Relationships -- Continued

COMMAND	TOPOGRAPHY STAFF POC	SUPPORTING TOPOGRAPHIC UNIT
4th Infantry Division (Mech)	Commander 4th Inf Div (Mech) ATTN: AFVB-GS-TA Ft Hood, TX 76544-5201 (817) 288 (DSN737)-3577	Commander 610th/143d Engr Dets Ft Hood, TX 76544-5201 (817) 288 (DSN737)-3577
10th Infantry Division (Mtn)	Commander 10th Inf Div (MTN) ATTN: AFZS-IN-TTM Ft Drum, NY 13602-5010 (315) 772 (DSN341)-3415/4055	Commander 66th Engr Det Ft Drum, NY 13602-5010 (315) 772 (DSN341)-3415/4055
82d Airborne Division	Commander 82d Abn Div ATTN: AFVC-GB-TAD Ft Bragg, NC 28307-5100 (910) 432 (DSN239)-1902/2211	Commander 541st Engr Det Ft Bragg, NC 28307-5100 (910) 432 (DSN239)-1902/2211
101st Airborne Division (AA)	Commander 101st Abn Div (AA) ATTN: AFZB-GS-61ST Ft Campbell, KY 42223-1299 (502) 798 (DSN635)-7637/7443	Commander 61st Engr Det Ft Campbell, KY 42223-1299 (502) 798 (DSN635)-7637/7443
28th Infantry Division	Commander 28th Inf Div ATTN: ACofS, G2 Harrisburg, PA	Commander 1002d Engr Det Headland, AL 36345-2126 (205) 693-3621
29th Infantry Division	Commander 29th Inf Div ATTN: ACofS, G2 Ft Belvoir, VA	Commander 1006th Engr Det New Brockton, AL 36345-2126 (205) 894-2308
35th Infantry Division (Mech)	Commander 35th Inf Div (Mech) ATTN: ACofS, G2 Ft Leavenworth, KS	Commander 1009th Engr Et New Brockton, AL 36345-2126 (205) 894-2308
38th Infantry Division	Commander 38th Inf Div ATTN: ACofS, G2 Indianapolis, IN	Commander 1304th Engr Det Headland, AL 36345-2126 (205) 693-3621
40th Infantry Division (Mech)	Commander 40th Inf Div (Mech) ATTN: ACofS, G2 Los Alamos, CA	Commander 1004th Engr Det Headland, AL 36345-2126 (205) 693-3621
42th Infantry Division	Commander 42th Inf Div ATTN: ACofS, G2 Troy, NY	Commander 1005th Engr Det Headland, AL 36345-2126 (205) 693-3621
49th Armored Division	Commander 49th Ar Div ATTN: ACofS, G2 Austin, TX	Commander 1007th Engr Det New Brockton, AL 36345-2126 (205) 894-2308
FORSCOM EAC Units (Nonstandard requirements)	Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)- 5472/5904	Commander 30th Engr Bn Ft Bragg, NC 28307 (910) 396 (DSN236)-5051 Commander 100th Engr Co Ft Bragg, NC 28307 (910) 396 (DSN236)-2256
FORSCOM EAC Units (Nonstandard requirements)	Commander 132d Engr Det (P&C) Ft Gillem, GA 30050-5000 (770) 363 (DSN797)- 5472/5904	Commander 1203d Engr Bn (ALANG) Dothan, AL 36301-1470 (205) 793-9508 Commander 1204th Engr Co (ALANG) Slocumb, AL 36375-0416 (205) 886-2380

Page 11, Appendix C, Add paragraph C-5: C-5 Map Supply Sources within FORSCOM:

a. General: The Army's concept for standard logistical support provides for the supply of standard unclassified MC&G products.

b. Levels of Supply:

(1) Direct Support (DS): Both divisional and non-divisional customers will order MC&G products through respective DS channels.

(2) General Support (GS): Map supply elements are allocated to selected GS quartermaster (QM) companies on the basis of at least one per COSCOM. These units back up the DS level and also support non-divisional units.

(3) Exceptions: Installations not containing tactical MC&G distribution units may perform the equivalent GS function for tenant units, activities, and AR 5-9 regional support requirements. The MC&G products will be requisitioned through the supporting installation Director of Logistics (DOL).

(4) Storage: Tactical quartermaster units may store, for a short period of time, limited quantities of just-in-case maps for planning of or support of deployment requirements. Check with GS unit or supporting installation DOL regarding additional storage possibilities.

c. Ordering Procedures:

(1) Customers will order maps through respective DS supply channels using standard Army supply system procedures.

(2) Map stockage and issue will follow provisions of AR 710-2 for entry of map requisitions into the Military Standard Requisition Issue Procedures (MILSTRIP) format.

(3) Transactions will be processed through automated data processing systems converting DMA Map catalog numbers to national stock numbers (NSN).

(4) Divisional unit requests for maps are submitted to the Division Material Management Center (DMMC) to the COSCOM Material Management Center (MMC).

d. Storage: The Supply and Service (S&S) company of the division main support battalion (MSB) may store limited quantities of just-in-case maps for planning stock or to support deployment of OPLAN/CONPLAN designated immediate reaction forces (See Appendix G).

Appendix D: Requesting Special Products and Services, add to read:

D-1. Purpose. This appendix outlines procedures for requesting nonstandard topographic products and

services. FORSCOM topographic units provide expedient, substitute, or tailored products and services when standard products cannot meet user requirements.

D-2. Requesting information about special products and services.

a. Special products have a very limited distribution. They are not centrally controlled through logistics channels and may be difficult to obtain. Requesters should contact their respective supporting topographic unit to identify existing products which may satisfy a requirement (see Appendix B).

b. Potential customers may discuss technical information with a topographic unit at any time to determine the feasibility of a product. The topographic unit can review available source data, evaluate alternative production methods, and either identify a possible support schedule or pass the request to a higher support echelon for evaluation.

D-3. Requesting special or tailored products/services and source materials.

a. After establishing the availability/technical feasibility of a product, customers will send the request through command channels to the supporting topographic unit (see Appendix B). Customers should attempt to gain support at the lowest command level. Requests for support from a FORSCOM EAC topographic asset must be sent to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000 for action.

b. Submit justified requests for source materials through command channels to the supporting topographic unit (see Appendix B). Include a statement of urgency and required due date. If the unit is unable to satisfy the requirement, it will pass the request to FORSCOM for assistance.

c. Request Priorities:

(1) Priority 1. Assigned to crises support or essential products for which the requester has identified an urgent or compelling near-term operational need.

(2) Priority 2. Assigned to essential products supporting forces which are assigned principal tasks.

(3) Priority 3. Assigned to necessary products supporting forces which are assigned principal tasks.

(4) Priority 4. Assigned to both essential and necessary products that are assigned supplemental tasks.

d. To facilitate production, the following information must be provided by the requester:

(1) All requests:

- (a) Purpose, scope, and security classification of project.
- (b) The required media or format and numbers of copies.
- (c) Required completion date.
- (d) Availability of funding if required.
- (e) Name and telephone number of the point of contact.

(2) Map print/overprint services. Drafted material will be in final form, drawn in black opaque ink. Color separated images, drawn in black ink for each color, will be submitted for products requiring more than one color. (Army topographic units are limited to a paper size of 22.5 X 29.0 inches. Requests for larger products must be forwarded to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000 for action. This increases response time since agencies outside FORSCOM become involved.)

(3) Geodetic services. Requests for geodetic surveys, geodetic control information, and conversion of coordinate data will be submitted at the earliest possible date. Construction surveys are not the responsibility of geodetic surveyors. For construction survey, contact a local engineer construction unit for assistance. Geodetic survey requests will include, as a minimum:

(a) Required position (horizontal and vertical) and direction (azimuth) accuracy in terms of standard error, probable error, or standard geodetic survey order.

(b) Format and specifications for any required drawings.

(4) Terrain analysis. Terrain analysis products are extremely varied. Identify the specific question(s) you need the product to answer. The supporting topographic unit will design the best product to meet your requirements.

D-4. External Requests. Requests from a state or local government or the private sector must pass through the FORSCOM Public Affairs Officer to the FORSCOM MC&G officer, Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

Appendix E; Reports, add to read:

E-1. Purpose. The following reporting requirement is to provide the Army Component Commander with essential engineer topographic information related to significant topographic engineer unit activities and requirements.

E-2. Requirements.

a. Production Management Reports:

(1) Production Estimate: Submit report to Commander, U.S. Army Forces Command, ATTN: AFIN-OD-132D, Fort Gillem, Georgia 30050-5000, NLT 10 days following the receipt of a FORSCOM Production Directive. Minimum information required is estimated; man hours, bill of materials, start date, completion date and brief description to the scope of production.

(2) After Action Report: Submit report to Commander, U.S. Army Forces Command, ATTN: AFIN-OD-132D, Fort Gillem, Georgia 30050-5000, NLT 15 days following the completion of a FORSCOM Production Directive. Minimum information required is the actual; man hours, bill of materials, start date, completion date, brief description to the scope of production and lessons learned.

b. Routine Reports:

(1) Active Units: Submit TOPOSITREP monthly with the last day of the month as the reporting date. This TOPOSITREP may be used to specify requirements for U.S. Army Forces Command assistance.

(2) Reserve Component Units: Submit TOPOSITREP quarterly with the last day of the quarter as the reporting date.

(3) Reports are due at Headquarters, U.S. Army Forces Command, ATTN: AFIN-OD-132D, Fort Gillem, Georgia 30050-6000 NLT 15 days following the reporting date.

c. Crisis conditions:

(1) Initially submitted upon receipt of either:

(a) Assigned, attached, OPCON, or direct support orders.

(b) Instructions to support a crisis or contingency mission directed by FORSCOM or another Army Component Commander.

(2) Subsequent reports will be submitted once a day, with a reporting time of 2400 hours local. "NO CHANGE" reports can be verbally submitted daily with a submission of a weekly hard copy report. All reports should arrive NLT 0800 hrs at the Army Component Command Headquarters P&C Team, (MC&G officer with no P&C presence). Submission times may be altered by the receiving headquarters.

E-3. Method of Transmission.

a. Routine Reports: U.S. Mail, commercial fax, or courier.

b. Crisis Situations:

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(1) Unclassified: E-Mail, message text format (MTF), commercial/tactical fax, or courier.

(2) Classified: Any method meeting classification requirements.

E-4. Precedence.

- a. Routine Reports - Routine
- b. Crisis Situations - Priority

E-5. Security Classification.

- a. Routine Reports: For Official Use Only.
- b. Crisis Situations: SECRET unless operational requirements and contents require/allow otherwise.

E-6. Report content: See Figure E-1 for Crisis example in MTF.

a. FROM: Topographic Unit Designation
b. TO: CDRFORSCOM FT MCPHERSON//AFIN-OD-132D// (Unless situation alters reporting procedures.

c. INFO: Include interested headquarters or lateral topographic units.

d. SUBJECT: "TOPOSITREP," and report number, (for ROUTINE reports, four digit number including last two digits of calendar year and month of report, e.g. 9506 for a report through June 1995).

e. PERIOD: Date time group (DTG) for beginning and end of reporting period. Beginning DTG must match with ending DTG from previous report.

f. ORGANIZATION:

(1) ATTACHMENTS AND DETACHMENTS: Delineate individual and unit augmentation support detached or received.

(2) OVERALL ORGANIZATION:

(a) Routine Report: "No task organization applies for this report."

(b) Crisis situations: In matrix format, identify complete topographic task organization listing:

- Unit(s)
- Higher headquarters
- Command/support relationships
- Location
- Expected duration of support

g. SITUATION:

(1) MISSION:

(a) PRIORITY OF EFFORT OR WORK: List missions in priority order (i.e. geodetic survey, terrain anal, production, other).

(b) PRIORITY OF SUPPORT: In priority order, list the units/elements/operations receiving priority topographic support.

(2) COMMANDER'S OVERVIEW:

(a) COMMANDER'S ASSESSMENT: Unit commander remarks capitulating the current operations, and explaining future intent.

(b) COMMANDER'S CONCERNS: Identify significant issues/problems that require commanders interest and involvement.

(c) UNIT PRODUCTION FOR REPORT PERIOD: List in matrix:

- Unit
- Section
- Available days and man-hours
- Tasked days and man-hours
- Excess capability days and man-hours

h. OPERATIONS:

(1) CURRENT OPERATIONS: Describe the unit's current operations during the report period.

(2) FUTURE OPERATIONS: Describe the unit's proposed or planned operations for the next two report periods.

(3) TOPOGRAPHIC ACTIVITIES/ISSUES: Identify activities and/or issues requiring higher headquarters involvement.

(4) ENGINEER PRODUCTION STATUS: List the ongoing production directives. Report in matrix:

- FORSCOM project number
- Project title
- Unit assigned project
- Start date
- Due date
- Percent completed from last report
- Percent completed this report
- Requesting/supported unit.

i. LOGISTICS:

(1) TOPOGRAPHIC ENGINEER DATA:

(a) PROJECT RESOURCING: Report in matrix:

- FORSCOM Project number
- Estimated man hours
- Man-hours used to date
- Estimated cost of project
- Cost of project to date
- Number of impressions
- Number of copies produced
- Number of copies furnished
- Remarks

(b) NARRATIVE COMMENTS: (Optional) List significant logistic issues which may impact the topographic missions or any existing projects.

(2) SERVICE SUPPORT Identify the issues for each subparagraph having impact on current or proposed operations. "No issues" is a required entry if there are no current issues for a subparagraph.

- (a) CLASS II: - Report period Losses (OFF/WO/ENL)
- (b) CLASS IV: - Report period Gains (OFF/WO/ENL)
- (c) CLASS V: - End Strength (OFF/WO/ENL)
- (d) CLASS VII: - Percent of Authorized
- (e) CLASS IX: (b) CRITICAL MOSs: Identify MOS shortages that affect the mission. Report in matrix:
 - MOS Designation
 - MOS Name
 - Grade
 - Number Authorized
 - Number On Hand
- (3) MISSION ESSENTIAL EQUIPMENT: Required paragraph. List essential Class VII items in matrix format with the following:
 - Type
 - Amount Authorized
 - Amount On hand
 - Amount Fully Mission Capable
- (4) FORCE MODERNIZATION EQUIPMENT: State significant problems in receipt, training and support of new equipment or systems.
- j. PERSONNEL
 - (1) Routine Report: Address personnel issues that affect the unit readiness or mission.
 - (2) Crisis situation:
 - (a) PERSONNEL DAILY SUMMARY: List in matrix:
 - Assigned at start of report (OFF/WO/ENL)
 - (b) COMMAND: Anticipated problems and/or changes to the task organization involving topographic units.
- (c) PERSONNEL REMARKS: Expand on any personnel issues that require further explanation.
- k. COMMAND AND SIGNAL:
 - (a) SIGNAL: List current tactical/commercial phone and fax number(s) for the unit commander(s), operations officer (S3), assistant corps engineer (ACE) MC&G officer or other significant MC&G POCs. For routine reporting, only list changes from previous report.

Figure E-1: MTF Format Example for a Crisis TOPOSITREP

```

R 271305Z OCT 94
FM //
TO CDRFORSCOM FT MCPHERSON GA//AFIN-OD-132D//
INFO//
SUBJ/TOPO SITREP # 045 (U)//
PERIOD/FROM DTHOUR(Z)MONYR TO DTHOUR(Z)MONYR//

GENTEXT/ORGANIZATION//
1. (U) ATTACHMENTS/DETACHMENTS//
2. (U) OVERALL ORGANIZATION//
UNIT NAME          UNIT LOC(GRID/VIC)          SUPRTD HQ          CMD REL          DUR
615 EN BN          AB12345678 VIC ABIB CITY          ARNORTH          ATTACH          INDEF
342 EN CO          AB87654321 VIC HIGH ROCK MTN          XII CORPS          GS              151200ZNOV94

GENTEXT/SITUATION//
1. (U) MISSION//
A. (U) PRIORITY OF EFFORT OR WORK/SURVEY, TA, RECON//
B. (U) PRIORITY OF SUPPORT/XI CORPS, 12 DIV, 38 SIG BDE//
2. (U) OVERVIEW//
A. (U) COMMANDER'S ASSESSMENT/GREEN IN ALL AREAS. THE BATTALION IS PROGRESSING WITH ALL PROJECTS CURRENTLY.
B. (U) COMMANDER CONCERNS/PERSONNEL SHORTFALLS IN MID GRADE TERRAIN ANALYSTS COULD BECOME CRITICAL IF ANY TERRAIN ANALYSIS REQUIREMENTS ARE ADDED TO CURRENT PROJECTS//
C. (U) ENGINEER ISSUES/UNIT PRODUCTION CAPABILITY
UNIT          SECTION          AVAILABLE          TASKED          EXCESS CAP
              DAYS//MANHRS    DAYS//MANHRS      DAYS//MANHRS    DAYS//MANHRS
342          SURVEY          12D // 240 MH    8D // 100 MH    4D // 140 MH
    
```

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342	CARTO	12D // 120 MH	8D // 120 MH	4D //	0 MH	
342	REPRO	12D // 50 MH	8D // 50 MH	4D //	0 MH	
342	TERR ANAL	12D // 200 MH	8D // 200 MH	4D //	0 MH	
GENTEXT/OPERATIONS//						
1. (U) CURRENT OPERATIONS/LAST 24 HOURS GENERAL ACTIVITIES OF BN AND COMPANIES...//						
2. (U) FUTURE OPERATIONS/NEXT 24-48 HOURS GENERAL ACTIVITIES OF BN AND COMPANIES...//						
3. (U) TOPOGRAPHIC ACTIVITIES AND ISSUES/NEED COORDINATION ASSISTANCE FOR PRECISE POSITIONING SURVEY MISSION FOR 51ST FIGHTER WING, GACHOBI AIR BASE//						
4. (U) ENGINEER PRODUCTION STATUS//						
PROJ NUM	TITLE	UNIT	DUE	LAST%	CURR%	SUPPTED
94-102	AIRSTRIP SURVEY	342	20NOV94	00%	00%	51
FTWG						
94-101	ETC					
ETC						
GENTEXT/LOGISTICS//						
1. (U) TOPOGRAPHIC ENGINEER DATA//						
A. (U) PROJECT RESOURCING//						
PROJ NUM	EST MH	CUMM MH	EST COST	CUMM COST	COPIES	REMARKS
94-102	400	0	\$100	\$0	NA	AWAITING START
94-101	ETC					
ETC						
B. (U) NARRATIVE COMMENTS/NONE//						
2. (U) SERVICE SUPPORT//						
A. (U) CLASS II: NO ISSUES						
B. (U) CLASS IV: NO ISSUES						
C. (U) CLASS V: NO ISSUES						
D. (U) CLASS VII: NO ISSUES						
E. (U) CLASS IX: NO ISSUES						
3. MISSION ESSENTIAL EQUIPMENT: NO ISSUES						
TYPE	AUTH	O/H	FMC			
PRESS						
CAMERA						
MSIP						
FAISS						
PLATE MAKER						
FILM PROCESS						
QRMP						
TIIP/TIES						
AISI						
GPS						
OTHER						
E. (U) FORCE MODERNIZATION EQUIPMENT/EARLY FIELDING OF THE AISI IS NEEDED...//						
GENTEXT/PERSONNEL//						
1. (U) PERSONNEL DAILY SUMMARY//						
UNIT	START	LOSSES	GAINS	STRENGTH	AUTH	
HHC/615	15/2/102	1/0/10	0/0/1	14/2/91	17/3/120	
342	3/1/120	0/0/12	0/0/1	3/1/109	4/1/132	
2. (U) CRITICAL MOS/81Q20/TERRAIN ANALYST/E5/15/8//						
3. (U) PERSONNEL REMARKS//SHORTAGE OF 81Q20 IS LIMITING TA CAPABILITIES//						
GENTEXT/COMMAND AND SIGNAL//						
1. (U) SIGNAL/615 BN S3 (642-1995)/FAX (642-1234) ETC//						
2. (U) COMMAND/NO CHANGE EXPECTED//						

FIGURE E-1: MTF FORMAT EXAMPLE FOR A CRISIS TOPOSITREP (CONTINUE)

Appendix F; FIREFINDER Procedures, add to read:

F-1. General.

The purpose of this section is to provide the procedures for ordering digital maps for the FIREFINDER radar (AN/TPQ-36 and AN/TPQ-37). Currently, FORSCOM's mission is to provide timely digital map support to all users of FIREFINDER radars worldwide.

F-2. Who may order.

United States military units using FIREFINDER radars are authorized to order and receive FIREFINDER Elevation Digital (FFED). Foreign nations using FIREFINDER radar must order FFED through the appropriate foreign military sales officer at the Army Material Command (AMC).

F-3. When can you order.

- a. Initial requests are submitted by a unit just prior to receiving its FIREFINDER radar equipment.
- b. Subsequent requests may be submitted as either the unit's area of operation (AO) changes or new FFED for a given AO becomes available or is updated.
- c. FORSCOM will provide listings of new and updated FFED to units and their headquarters upon request.

F-4. What can be ordered.

- a. Units.
 - (1) Units are limited to the maximum number of FFED that can be dubbed to their tape transport units (TTUs) at the requested grid spacing (i.e. 125 meter spacing allows 2 FFED, or 250 meter spacing allows 8 FFED).
 - (2) Previously, units were limited to a predetermined number of TTUs based on their geographic location and AO. Units may now purchase their own TTUs through standard supply channels. FORSCOM will dub FFED onto unit owned TTUs IAW para F-4.a(1).
- b. Units are authorized FFED for training purposes.
 - (1) FORSCOM will provide FFED coverage of major training centers (i.e. Fort Irwin, CA) and any other training centers, servicing three or more units that have the FIREFINDER radar. This relieves each individual unit requiring its own FFED of the training center.

(2) Control of the FFED is the responsibility of the training center.

c. Users will receive the following information with each FFED provided it is available.

- (1) FFED designator (Military Grid Reference System).
- (2) FFED false easting and northing
- (3) Grid spacing of the FFED.
- (4) Date dubbed by FORSCOM.
- (5) Name of unit requesting FFED.
- (6) Relative vertical accuracy of each FFED.
- (7) Datum from which the FFED was derived.
- (8) Hard copy plot depicting FFED coverage.

F-5. Ordering Procedures for FFED.

a. Procedures and forms required for ordering FFEDs from FORSCOM are:

(1) FORSCOM FORM 166-R, must be submitted through appropriate command channels to the DEDDF. A copy of this form is at the rear of this supplement, or may be procured from the local forms management office.

(2) Prior to forwarding to the FORSCOM DEDDF for dubbing, Major Army Commands (MACOMs) determine if the FFED is available, and verify the requirement under existing operations or plans. If the requirement is valid but FFED is not available, the MACOM must submit an out of cycle MC&G requirement through their respective CINC, to DMA for dubbing by the FORSCOM DEDDF.

(3) FORSCOM will validate and process authorized requests upon receipt from the MSC.

b. Units may contact the FORSCOM DEDDF directly for assistance in submitting FFED orders. The phone numbers are DSN 797-5473/5989 or COMM (404) 363-5473/5989.

c. FORSCOM will be responsible for the shipment of TTUs to the units who requested the FFED. DA Form 200 (Transmittal Record) will accompany the TTU. One copy of the form must be signed and returned to Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

d. For updated FFEDs the unit must send TTU with old FFED to FORSCOM to be dubbed with new FFED. FORSCOM WILL NOT PROVIDE TTUS TO UNITS.

Appendix G; Unit MC&G Product Authorizations, add to read:

G-1. Purpose. This appendix outlines FORSCOM unit authorizations of standard topographic products.

G-2. Standard Topographic Products. Standard topographic products are found in the DOD, DMA Catalog of Maps, Charts, and Related Products. The catalog includes topographic, hydrographic, aeronautic, and classified target material in paper and digital formats.

a. Maps with scales of 1:500,000 and smaller are used for strategic planning or reference. World and Theater maps are examples of small scale maps.

b. 1:250,000 scale maps are Joint Operation Graphics (JOG). All JOGs use a standard database, but are overprinted with different data. JOG-G has ground maneuver data and elevation data in meters, and JOG-A has air navigation data with elevation data in feet. JOG products are for tactical and logistical planning at the battalion and higher level Task Force. JOG-G maps can be used for road navigation

c. 1:50,000 scale Topographic Line Maps (TLM) are the standard tactical planning and maneuver map. High mobility terrain such as deserts or plains with minimal relief often necessitate 1:100,000 scale TLMs in lieu of 1:50,000. 1:100,000 and 1:50,000 standard coverage are not mutually exclusive. For specific coverage of any region, refer to DOD, DMA Catalog of Maps, Charts, and Related Products. Because large scale maps are data intensive, there is no world-wide adequate coverage. Smaller scale products, map substitutes, or noncurrent TLMs may be the only coverage available.

d. Some larger scale maps (e.g. 1:12,500) are available as City Graphics for more static operations in urban or congested areas. When unclassified large scale maps are available, plan for authorizations equivalent with TLM factors.

e. Digital databases are available in vector and raster formats for terrain analysis, terrain visualization, and map background for topographic, simulation, mission rehearsal, targeting, and command and control automation systems. DOD, DMA Catalog of Maps, Charts, and Related Products lists digital database coverage availability. Different digital systems use different digital products. The DMA publication "Digitizing the Future" lists explanations and uses of existing and prototype digital products.

The planning factor to be used is one digital database set of OPLAN/CONPLAN/EXPLAN coverage is authorized for every system that can exploit it. When ordering digital databases, specify the system being used and the proper operating system download command lines required to ensure that you can access the data.

G-3. Authorizations.

a. Units are authorized requisition of MC&G products in accordance with Operations Plans (OPLAN), Contingency Plans (CONPLAN), or Exercise Plans (EXPLAN). Annex Ms of OPLANs, CONPLANs, and EXPLANs list MC&G product coverage and unit allocations.

b. Planning Stocks not exceeding twenty percent of basic load is permitted.

c. Minimum just-in-case stockage is only permitted to support immediate reaction force deployment IAW established OPLANs or CONPLANs. Units and installations should not stock MC&G products to support phased deployment of main body heavy forces or logistic assets. DOD just-in-time production will support these needs.

G-4. Planning Factors. Table G-1 lists planning factors for developing the required MC&G quantities for Appendix of Annex M of OPLANs, CONPLANs, and EXPLANs. This table is generalized information from FM 101-10-1/2 Staff Officers' field Manual - Organizational, Technical, and Logistical Data Planning Factors (Volume 2), Section VI. Topography, Table 1-57. Specific missions may alter these planning factors. MC&G mission analysis should be conducted to develop accurate authorizations.

G-5. Authorization Information. Concerns and questions about specific MC&G product authorizations should be directed to the appropriate theater army MC&G officer. For authorizations concerned with product coverage of a particular region, contact, through command channels, the MC&G officer in the headquarters of the Army Component Command responsible for the OPLANs in the AOR. See Table G-2 for AOR points of contact. General FORSCOM authorization questions or CONUS training requirements, contact Commander, FORSCOM, ATTN: AFIN-OD, Fort McPherson, GA 30330-6000.

**Table G-1
FORSCOM Unit MC&G Product Authorization Planning Factors**

Type Unit	Small Scale	1:250K	1:50K/1:100K	Map Catalogs
Company/Battery/Troop	0	7	20	0
Bn/Sqdr HHC/HHB/HHT	2	10	30	1
Brigade/RGT/Group HHC/HHT	10	30	50	2
Division HQ	20	30	75	6
Corps HQ	40	100	100	10
EAC HQ	60	100	100	10

**Table G-2
U.S. Army MC&G Product Authorization Points of Contact**

REGION	UNIFIED COMMAND	ARMY COMPONENT MC&G POINT OF CONTACT
North America & Caribbean	U.S. Forces Atlantic Command	Commander FORSCOM ATTN: AFIN-OD Fort McPherson, GA 30330-6000 (404)669(DSN367)-5944
South West Asia	U.S. Forces Central Command	Commander ARCENT/Third Army ATTN: AFRD-DS-T Fort McPherson, GA 30330-7000 (404)752(DSN572)-4133
Europe & Africa	U.S. Forces Europe Command	Commander USAEUR ATTN: AEAGB-SPO-RQI APO AE 09403 011-49-6221(DSN370)
Pacific & East Asia	U.S. Forces Pacific Command	Commander USARPAC ATTN: APIN-MCG Ft Shafter, HI 96858-5100 (808)438(DSN438)-6091
Central America & South America	U.S. Forces Southern Command	Commander USARSO ATTN: SOIN-OP (MC&G Officer) Unit 7106 APO AA 34004-5000 DSN 312-286-4218

Appendix H; Map Use at the National Training Center (NTC) and the Joint Readiness Training Center (JRTC), add to read:

H-1. General: It is FORSCOM's intent for units training at NTC and JRTC to train as they would fight. This intent includes using those map products that are expected to be available, via DOD channels, to support deployments and operations. U.S. Geological Survey (USGS) map sheet will not be available for OCONUS deployments and therefore, are not authorized for training except as stated below. USGS map sheet are not free to DOD users and must be purchased from USGS by the ordering unit or by the Defense Mapping Agency (DMA).

H-2. Products authorized for use: Products authorized for use at the training centers include:

a. DMA standard map and chart products such as 1:50k topographic line maps (TLM), Military Installation Maps (MIM), 1:250k Joint Operations Graphics (JOG), and 1:500k and smaller scale planning charts.

b. Topographic unit/terrain team produced non-standard and terrain analysis products.

c. Any other special map or image sanctioned/sponsored by MC&G Officer, FORSCOM.

H-3. Standing Exceptions: The following exceptions should be considered to be standing exceptions and are authorized until rescinded in writing by this headquarters. Requirements for further/temporary exceptions must be forwarded to MC&G Officer, FORSCOM with an explanation/justification to include as adverse impact statement. Standing exceptions:

a. Topographic/terrain units are authorized to procure a limited number of USGS map sheet (no more than five copies of each quad per rotation). This exception is granted solely to provide data to support

the production of nonstandard products. Straight reproduction without "value added" data is prohibited (this exception does not negate any possible legal restrictions that may have been imposed, or may be imposed, by USGS).

b. JRTC: Within the boundaries of Fort Polk/Peason Ridge, the updated Fort Polk/Peason Ridge Special MIMs (without range overprints) should be used in lieu of the Series V785 1:50k TLM. For areas outside of Fort Polk/Peason Ridge (i.e. staging areas, etc.), USGS products are authorized for use when no up-to-date standard DMA products are available, or when datum compatibility problems exist.

c. NTC: The overprinted Fort Irwin South MIM (estimated publication date 15 Feb 96) delineating the Desert Tortoise exclusion zones is the only mached authorized for use in that area unless otherwise authorized by the Fort Irwin/NTC G3/DPTMSEC (ATTN: AFZJ-PT), or until superseded by DMA revisions (scheduled publication date of DMA edition 3 is FY98).

H-4. Other exceptions:

a. SOF units will follow guidance provided by USASOC (ATTN: AOIN-ISM) in coordination with MC&G Officer, FORSCOM.

b. Units training in support of CONUS-based missions such as Military Assistance to Civil Authorities, Key Asset Protection, and disaster relief are authorized use of USGS map sheet.

H-5. NTC and JRTC Updates: NTC and JRTC will ensure that all changes and new requirements that adversely impact training are documented and identified in writing to MC&G Officer, FORSCOM for resolution.

Page 12. Glossary, Section I, add the following:

ADT	Active Duty Training	MAC	Major Army Command
AT	Annual Training	MGRS	Military Grid Reference System
COSCOM	Corps Support Command	MILSTRIP	Military Standard Requisition Issue Procedures
CONUSA	Continental United States Army	MSB	Main Support Battalion
DCAC	Digital Concepts and Analysis Center	MTF	Message Text Format
DEDDF	Digital Elevation Data Dubbing Facility	MTOE	Modified Table of Organization and Equipment
DMMC	Division Material Management Center	MTT	Mobile Training Team
DOL	Directorate of Logistics	NGB	National Guard Bureau
DS	Direct Support	NSN	National Stock Number
DSU	Direct Support Unit	ODT	Overseas Deployment Training
EAC	Echelons Above Corps	OPCON	Operational Control
EXPLAN	Exercise Plan	ROTC	Reserve Officer Training Corps
FFED	FIREFINDER Elevation Data	RSI	Remote Sensed Imagery
FORSCOM	U.S. Army Forces Command	S&S	Supply And Services
GIS	Geographic Information System	TPFDL	Time Phased Force Deployment List
GS	General Support	TOE	Table of Organization and Equipment
IAW	In Accordance With	TTU	Tape Transport Units
IDT	Individual Duty Training	UBL	Unit Basic Load
LNO	Liaison Officer	USACOM	U.S. Atlantic Command
		USGS	United States Geological Survey

Page 12, Glossary, Section II,
add the following:

Geographic Information System (GIS)

A computer assisted system for capture, storage, retrieval, analysis, and display of spatial data.

Just-In-Case

A method of logistics which maximizes warehouse stockage awaiting emergency.

Just-In-Time

A method of logistics which minimizes warehouse stockage. Exploitation of digital automation enables rapid production and delivery. In the case of MC&G products, MC&G products can be updated with current information prior to mass production and use.

Multispectral Imagery

A record of natural and manmade features acquired through simultaneous sensing multiple bands of the electromagnetic spectrum.

Nonstandard Products

A tailored (and possibly expedient) product produced by Army topographic assets for a particular mission.

Raster Graphic

Representation using cellular based data structure. A dataset composed of rows and columns value coded pixels.

Standard Product

A map, chart, or dataset produced by deliberate mapping capabilities such as the DMA. Products meet all specifications agreed upon the Military Services.

Vector Graphic

Representation using coordinate based data structures. A blank background with a dataset of applied values expressed in a coordinates system.