

METRIC

MIL-N-89404

15 AUGUST 1990

*No longer
active, except
existing material
1998*

MILITARY SPECIFICATION

NON-SIOP OPTION (NSO) SUPPORT

This specification is approved for use by all Departments and Agencies of the Department of Defense.

*listed as inactive
March 2004*

1. SCOPE

1.1 Scope. This specification defines requirements for the Defense Mapping Agency's (DMA) Non-SIOP Option (NSO) Support.

1.2 Purpose. The primary purpose of the NSO product is to provide precise point positioning in support of operational forces in their non-SIOP nuclear planning efforts. The required data consists of geodetic coordinates, Mean Sea Level (MSL) elevation, country code (CC) and point description.

1.3 Security.

1.3.1 Security classification of specification. This specification is UNCLASSIFIED.

1.3.2 Security classification of product. DMA supplied data/products will be classified "SECRET, NOT RELEASABLE TO FOREIGN NATIONALS". The classification and release of user supplied materials will be maintained at the user's classification.

*for
NATO!*

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the current issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Director, Defense Mapping Agency, ATTN: PR, 8613 Lee Highway, Fairfax, VA 22031-2137 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

AREA MCGT

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Military Standards

MIL-STD-600001 MC&G Accuracy Standard

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099)

2.1.2 Other Government documents, drawings, and publications.

This section is not applicable to this specification.

2.2 Non-Government publications.

This section is not applicable to this specification.

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detail specifications, specification sheets, or standards), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Accuracy. The general requirement is to provide point positioning data to the best achievable relative horizontal and vertical accuracies. Whenever possible, the Desired Ground Zero (DGZ) and related points should be positioned from the same source to enhance relativity.

Note: Reference MIL-STD-600001 MC&G Accuracy Standard for accuracy derivations.

3.2 Datum.

3.2.1 Horizontal Datums. The horizontal datum will be WGS-84 unless otherwise specified by the user.

3.2.2 Vertical datum. The vertical datum will be MEAN SEA LEVEL (MSL).

3.3 NAVY product requirements. NAVY points are requested by FICEURLANT. The points are requested in families, consisting normally of a Desired Ground Zero (DGZ), Offset Aiming Point (OAP) and an Initial Point (IP).

3.3.1 Specific NSO NAVY requirements.

- a. DGZ - The position designated for warhead detonation.
- b. OAP - A radar significant point within one to five nautical miles of the associated DGZ.
- c. IP - A radar significant point within 10-20 nautical miles of the associated DGZ.
- d. FICEURLANT will furnish reference coordinates and descriptions for all requested points.

Fleet Int
Center
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+ CAWT

(TCAM-N)
or Acl

- e. A photo with the Reference Point (RP) marked and annotated will be furnished by FICEURLANT.
- f. Unique Numbers and Point Identifiers will be furnished by FICEURLANT.
- g. Derived geodetic positions for all points will be on the datum requested by FICEURLANT. See Appendix, Section 30 for the data format.
- h. MSL elevation to the nearest foot will be provided for all points.
- i. Bearings will be computed to the tenth of a minute from:
 - (1) DGZ to OAP
 - (2) IP to DGZ
- j. Range and elevation difference between the DGZ and associated OAPs and IPs will be furnished to the nearest foot.
- k. OAP or IP elevations that differ from the DGZ will be identified by an "A": when above the DGZ and a "B" when below the DGZ.
- l. The country code for each point will be provided to FICEURLANT.

3.3.2 Selection and designation (NAVY). FICEURLANT will select the point, assign the unique number and identify what type of point (DGE, OAP or IP).

3.3.3 Point positions (NAVY). The horizontal and vertical point positions will be derived from Direct Positioning (DP) sources when available. Cartographic source may be used if DP sources are not available.

3.3.4 NSO NAVY request.

- a. Production request shall be directed by message on magnetic tape to the appropriate DMA office with the priority and required completion date. In addition to a referenced photo point mensuration, requests may be submitted operationally by phone, message or any other media.
- b. All request messages will be followed by a photo with the point annotated and the photo source identified.
- c. DMA production requirements:
 - (1) Produce NSO NAVY request to program specifications using the best available source material.
 - (2) Prepare shipment tape in accordance with the Appendix.

Note: NAVY points do not have an associated point graphic.

3.3.5 Production priorities and scheduling (NAVY). Activities involving authorized program rates are the responsibility of HQ DMA/PPA (AV 356-9272), priority of requests are the responsibility of HQ DMA/PRR (AV 356-9195),

production scheduling and source collection are the responsibility of DMAAC/PPGG (AV 693-4311). Questions regarding furnished positional data, and reference point problems, shall be referred to DMAAC/SDFP (AV 693-4531).

3.3.6 Transmission of data (NAVY).

- a. All assignments will come from FICEURLANT on a magnetic tape with the following identified:

<u># of Characters</u>	<u>Description</u>	<u>Comments</u>
6	Chart Identifier	ATC-200
10	Unique Number	ADN Number I
3	Point Type	DGZ, OAP, IP
2	Sequence Number	
9	Reference Latitude	DDMMSS.S N/S
10	Reference Longitude	DDMMSS.S E/W
2	Country Code	

- b. The characteristics of the tape are 9 track, ASCII, 1600 BPI, label records omitted, 1 record per block and 80 characters per record.]

3.3.7 Distribution of data (NAVY).

- a. Data will be forwarded to FICEURLANT via magnetic tape.
- b. The tape will contain card images of the FINAL DATA (Card A) and ASSOCIATED DESCRIPTION (Card B). (See Appendix, Section 30)
- c. The characteristics of the tape are 9 track, ASCII, 6250 BPI, label records omitted, 10 records per block and 80 characters per record.

3.4 USAFE product requirements. NSO points are requested by families identified by an ALLIED COMMAND EUROPE (ACE) DGZ Number (ADN). Each family has a DGZ and the required associated points depending upon the platform. I

3.4.1 Specific USAFE requirements.

- a. Desired Ground Zero (DGZ) - The position designated for warhead detonation.
- b. Offset Aiming Point (OAP) - A radar significant point normally located within 16 nautical miles of an associated DGZ.
- c. Radar Timer Reference Point (RTRP) - A radar significant aiming point used to key the weapon release sequence during radar approach. RTRPs are normally a maximum of 16 nautical miles from the associated DGZ.
- d. Visual Timer Reference Point (VTRP) - A non-radar significant aiming point to key the weapon release sequence in a visual approach. VTRPs are normally a maximum of nine nautical miles from the associated DGZ.
- e. Initial Point (IP) - A point which is usually radar significant used for initiating the approach to the DGZ and as an update point.

- f. Final Update Point (FUP) - A radar significant point used as a final enroute update point located approximately 40 miles from the DGZ.
- g. Allied Command Europe (ACE) DGZ Number (ADN) - A unique number used to identify each DGZ.
- h. USAFE will provide reference coordinates, elevation and chart identifier.
- i. USAFE will provide the following information as applicable: unique ADN number, point type (DGZ, OAP, RTRP, VTRP, IP or FUP), Basic Encyclopedia number (BE), Suffix number, Installation name, country code and description of point. W
- j. Geodetic coordinates will be provided USAFE referenced to both the current WGS and EUR datums.
- k. Mean Sea Level (MSL) elevation will be rounded to the nearest five feet.
- l. The country code (CC) will be provided.
- m. All data elements as shown in Appendix, Section 30 will be provided for each requested point as necessary.

3.4.2 Selection and designation (USAFE). USAFE will select the point, assign the ADN unique number and identify the point type.

3.4.3 Point positions (USAFE). The horizontal and vertical point positions will be derived from Direct Positioning (DP) sources when available. Cartographic source may be used if DP sources are not available.

3.4.4 NSO USAFE request.

- a. Production request shall be directed by message on magnetic tape to the appropriate DMA office with the priority and required completion date. In addition to normal media for a point request, they may be requested operationally by phone, message or any other media.
- b. All request messages will be followed by a photo with the point annotated and the photo source identified.
- c. DMA Production Requirements:
 - (1) Produce NSO USAFE request to program requirements using the required source material that is available to meet the established time constraints.
 - (2) Prepare shipment tape in accordance with the Appendix.

Note: USAFE points do not have an associated point graphic.

3.4.5 Production priorities and scheduling (USAFE). Activities involving authorized program rates are the responsibility of HQ DMA/PPA (AV 356-9272), priority of request are the responsibility of HQ DMA/PRR (AV 356-9195), production scheduling and source collection are the responsibility of DMAAC/PFGG (AV 693-4311). Questions regarding furnished positional data, and reference point problems, shall be referred to DMAAC/SDFP (AV 693-4531).

3.4.6 Transmission of data (USAFE).

- a. All assignments will come from USAFE on a magnetic tape with the following identified.

<u># of Characters</u>	<u>Description</u>	<u>Comments</u>
19	Point ID	ADN, BE Number, Suffix Number
4	Point Type	OAP, RTRP, VTAP, IP, FUP
2	Sequence Number	
9	Reference Latitude	DDMMSS N/S
10	Reference Longitude	DDMMSS E/W
6	Reference Chart	ATC-200
2	Country Code	

- b. The characteristics of the tape are 9 track, ASCII, 1600 BPI, label records omitted, one record per block and 80 characters per record.

3.4.7 Distribution of data (USAFE).

- a. Data will be forwarded to USAFE via magnetic tape.
- b. The tape will contain card images of the FINAL COORDINATE DATA and all required associated data. (See Appendix, Section 30)
- c. The characteristics of the tape are 9 track, ASCII, 1600 BPI, label records omitted, 1 record per block and 80 characters per record.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use their own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure products and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or services submitted to the Government for acceptance comply with all requirements of a

contract. Sampling inspection, as part of operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

5. PACKAGING

This section is not applicable to this specification.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. This specification is designed to provide guidelines for the derivation, preparation and distribution of precise point positioning of the NSO programs. Two NSO programs these specifications support are Non-SIOP target planning data for the Fleet Intelligence Center Europe and Atlantic (FICEURLANT) and NSO target planning data for the United States Air Force Europe (USAFE).

6.2 Definitions.

6.2.1 Acronyms.

ACE	Allied Command Europe
ADN	ACE DGZ Number
ASCII	American Standard Character Information Interchange
BE	Basic Encyclopedia
BPI	Bits Per Inch
CC	Country Code
DMA	Defense Mapping Agency
DoD	Department of Defense
DGZ	Desired Ground Zero
EUR	European
FICEURLANT	Fleet Intelligence Center Europe and Atlantic
IP	Initial Point
MSL	Mean Sea Level
RP	Reference Point
RTRP	Radar Timer Reference Point
USAFE	United States Air Force Europe
VTRP	Visual Timer Reference Point
WGS	World Geodetic System
OAP	Offset Aiming Point
AP	Aim Point
FUP	Final Update Point

6.3 International standardization agreements. Certain provisions of this specification are subject of international standardization agreement. When amendment, revision, or cancellation of this specification is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations.

6.3.1 International Standardization Agreements (STANAGs).

This section is not applicable to this specification.

6.3.2 Quadrupartite Standardization Agreements (OSTAGs).

This section is not applicable to this specification.

6.3.3 Air Standardization Coordinating Committee Agreements (ASCC AIR STDs/STDs/ADV PUBs).

This section is not applicable to this specification.

6.3.4 International MC&G Agreements.

This section is not applicable to this specification.

6.3.5 Executive Orders.

This section is not applicable to this specification.

6.3.6 Inter-Agency Agreements.

This section is not applicable to this specification.

6.3.7 Other Documentation.

This section is not applicable to this specification.

APPENDIX

FORMATS

10. SCOPE

10.1 Scope. This Appendix is an integral part of the specification and is necessary for the shipment format of data. This Appendix is a mandatory part of the specification. The information contained herein is intended for compliance.

20. APPLICABLE DOCUMENTS

This section is not applicable to this Appendix.

30. FORMAT

30.1 NAVY shipment format.

a. Shipment card of final data (Card A).

<i>characters each</i> COLUMNS	DESCRIPTION	COMMENTS
1	"A"	
2-11	Unique I.D.	(left justified) 17 0A
12-13	Blank	
14	Point Type	DGZ="D", OAP="F" IP="I"
15-16	Point ID	DGZ=Blank OAP=Blank, Alpha IP =Numeric, Numeric
17-24	Preferred Latitude	DDMMSS.S
25	Cardinal Direction	N or S
26-34	Preferred Longitude	DDMMSS.S
35	Cardinal Direction	E or W
36-41	Publication Date	YYMMDD
42-61	Blank for DGZ	
42-44	"RNG"	
45-51	Range	(nearest foot, right justified with leading zeros)
52-54	"BRG"	
55-61	Bearing	DDMM.M
62-66	Elevation MSL	(nearest foot)
67-69	"MSL"	
70-74	Blank for DGZ	
70	Elevation Comparison	"A" when elevation above DGZ. "B" when elevation below DGZ. Blank when same elevation as DGZ
71-74	Absolute elevation difference (nearest foot) "0000" if no difference	
75-76	Country Code	
77	"X"	
78-80	Blank	

All 80 characters

- b. Final AUTODIN shipment deck. Deck will consist of Final Data Cards "A" and Associated Description Cards "B".

COLUMNS	CONTENT
1	"B"
2-16	Same as "A: Card
17-19	Sequence Number "010", "020", etc.
20-80	Description

30.2 USAFE shipment format.

- a. DGZ card one.

COLUMN	DESCRIPTION	COMMENTS
1	Card Number	Always "1"
2-5	ADN	A normal ADN has a numeric range 0001-9999. If no ADN is assigned by ACE, which occurs when the BE number is the primary DGZ, AC will assign a number which will have a "B" in Column 2 and Columns 3-5 will be a sequential number 001-999, right justified, zero filled.
6-9	Point Type	Always "DGZ", left justified.
10-12	Blank	
13-24	Point I.D. BE Suffix	BE Number, Suffix Number.
25-26	Country Code	Standard two character code.
27-71	Point Description	Installation name provided by USAFE.
72-76	Blank	
77	Commonality Code	Commonality change code. "C" will indicate AC has changed the description to maintain commonality.
78-80	Blank	

ACE DGZ

- b. DGZ card two.

COLUMN	DESCRIPTION	COMMENTS
1	Card Number	Always "2"
2-5	ADN	Right justified, zero filled.
6-9	Point Type	Always "DGZ", left justified.
10-12	Blank	
13-18	Reference Latitude	DDMMSS
19	Cardinal Direction	N or S
20-26	Reference Longitude	DDMMSS
27	Cardinal Direction	E or W
28-35	USAFE Reference Chart	The ATM sheet identifier used by USAFE to derive the USAFE chart reference coordinates.

<u>COLUMNS</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
28-31	WAC (USAFE)	
32-33	Sheet (USAFE)	
34-35	Edition (USAFE)	
36-50	Blank	
51-58	AC Reference Chart	
51-54	WAC (AC)	
55-56	Sheet (AC)	
57-58	Edition (AC)	
59-76	Blank	
77	Error	Blank - if the geodetics and USAFE reference coordinates differ by less than 10 seconds in latitude and longitude. Blank - if the geodetics and USAFE reference coordinates differ by 10 or more seconds in latitude or longitude, but the geodetics and AC reference coordinates differ by less than 10 seconds in latitude and longitude. "E" - if the geodetics and AC reference coordinates differ by 10 or more seconds in latitude or longitude.
78-80	Blank	

c. Preferred DGZ card three EUR datum.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1	Card Number	Always "3"
2-5	ADN	Right justified, zero filled.
6-9	Point Type	Always "DGZ", left justified.
10-12	Blank	
13-20	Preferred Latitude	DDMMSS.S
21	Cardinal Direction	N or S
22-30	Preferred Longitude	DDMMSS.S
31	Cardinal Direction	E or W
32-34	Preferred Reference	The geodetic coordinates datum reference. EUR - European Datum
35	Source Code	The positioning source used to derive geodetic coordinates. P = Pave Strike Q = Revised Pave Strike D = Direct Positioning X = CCN V = Metric Pan H = HE A = Carto E = Other

<u>COLUMNS</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
36-40	Elevation	Elevation of DGZ referenced to Mean Sea Level, right justified, zero filled. Column 36 has a minus sign for elevations below Mean Sea Level.
41-70 71-76	Blank Publication Date	DDMMYY - the date AC published the information for the DGZ.
77	Elevation Change	Code to explain status of elevation. N = no change I = initial point selection or RP moved L = change in elevation of less than 30 ft G = changes equal to or greater than 30 ft
78-80	Blank	
d. WGS DGZ card three.		

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1	Card Number	Always "3"
2-5	ADN	Right justified, zero filled.
6-9	Type Point	Always "DGZ", left justified.
10-12	Blank	
13-20	WGS Latitude	DDMMSS.S
21	Cardinal Direction	N or S
22-30	WGS Longitude	DDMMSS.S
31	Cardinal Direction	E or W
32-34	Preferred Datum	The geodetic coordinates datum reference. WGD = WGS84 Datum
35	Source Code	The positioning source used to derive geodetic coordinates. P = Pave Strike Q = Revised Pave Strike D = Direct Positioning X = CCN C = Data Base Non Pave Strike V = Metric Pan H = HE A = Carto E = Other
36-40	Elevation	Elevation of DGZ referenced to Mean Sea Level, right justified, zero filled. Column 36 has a minus sign for elevations below Mean Sea Level.
41-70 71-76	Blank Publication Date	DDMMYY - the date AC published the information for the DGZ.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
77	Elevation Change	Code to explain status of elevation. N = no change I = initial point selection or RP moved L = change in elevation of less than 30 ft G = changes equal to or greater than 30 ft
78-80		Blank

e. OAP, RTRP, VTRP, IP, FUP card one.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1		Card Number Always "1"
2-5		ADN Right justified, zero filled.
6-12		Point Type OAP, RTRP, VTRP, IP, or FUP, left justified. Always "--". Sequential number assigned by AC for the particular type point. Note that once a number is assigned to a specific physical feature, that number should not be used for any other feature.
13-71		Point Description Description of type point as provided by USAFE.
72-76		Blank
77	Commonality Code	Commonality change code. "C" will indicate AC has changed the description to maintain commonality.
78-80	Blank	

f. OAP, RTRP, VTRP, IP, FUP card two.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1	Card Number	Always "2".
2-5		ADN Right justified, zero filled.
6-12		Point Type OAP, RTRP, VTRP, IP, or FUP, left justified. Always "--". Sequential number assigned by AC for the particular type point. Note that once a number is assigned to a specific physical feature, that number should not be used for any other feature.
13-18	Reference Latitude	DDMMSS
19	Cardinal Direction	N or S
20-26	Reference Longitude	DDMMSS

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<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
27	Cardinal Direction	E or W
28-35	USAFE Reference Chart	The ATM sheet identifier used by USAFE to derive USAFE chart reference coordinates.
28-31	WAC (USAFE)	
32-33	Sheet (USAFE)	
34-35	Edition (USAFE)	
36-50	Blank	
51-58	AC Reference Chart	
51-54	WAC (AC)	
55-56	Sheet (AC)	
57-58	Edition (AC)	
59-75	Blank	
76	Radar Significance	OAP = Blank RTRP = Blank VTRP = "R" when radar significant (provided by USAFE) VTRP = Blank when not radar significant IP = Blank FUP = Blank
77	Error	Blank - when the geodetics and USAFE reference coordinates differ by less than 10 seconds in latitude and longitude. Blank - if the geodetics and USAFE reference coordinates differ by 10 or more seconds in latitude and longitude, but the geodetics and AC reference coordinates differ by less than 10 seconds in latitude and longitude. "E" - if the geodetics and AC reference coordinates differ by 10 or more seconds in latitude or longitude.
78-80	Publication Date	YMM - The date AC developed the information contained on the punch card.

g. Shipment format OAP, RTRP, VTRP, IP, FUP card three preferred datum European.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1	Card Number	Always "3".
2-5	ADN	Right justified, zero filled.
6-9	Point Type	OAP, RTRP, VTRP, IP, FUP, left justified.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
10	Dash	Always "--".
11-12	Type Number	Sequential number assigned by AC for the particular type point. Note that once a number is assigned to a specific physical feature, that number should not be used for any other feature.
13-20	Preferred Latitude	DDMMSS.S
21	Cardinal Direction	N or S
22-30	Preferred Longitude	DDMMSS.S
31	Cardinal Direction	E or W
32-34	Preferred Datum	The geodetic coordinates datum reference.
35	Source Code	EUR - European The positioning source used to derive geodetic coordinates. P - Pave Strike Q - Revised Pave Strike D - Direct Positioning X - CCN E - Other
36-40	Elevation	Elevation of point referenced to Mean Sea Level, right justified, zero filled. Column 36 has a minus sign for elevation below Mean Sea Level.
41-76	Blank	
77	Elevation Change	Code to explain status of elevation. N - no change I - initial point selection or RP moved L - change in elevation of less than 30 feet G - changes equal to or greater than 30 feet
78-80	Publication Date	YMM

h. OAP, RTRP, VTRP, IP, FUP card three WGS.

<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
1		Card Number Always "3".
2-5		ADN Right justified, zero filled
6-9		Type point OAP, RTRP, VTRP, IP, FUP, left justified.
10		Dash Always "--".
11-12	Type Number	Sequential number assigned by AC for the particular type point. Note that once a number is assigned to a specific physical feature, that number should not be used for any other feature.

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<u>COLUMN</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
13-20	WGS Latitude	DDMMSS.S
21	Cardinal Direction	N or S
22-30	WGS Longitude	DDMMSS.S
31	Cardinal Direction	E or W
32-34	Preferred Reference	The geodetic coordinates datum reference. WGD - WGS-84
35	Source Code	The positioning source used to derive geodetic coordinates. P - Pave Strike Q - Revised Pave Strike D - Direct Positioning X - CCN C - Data Base Non-Pave Strike V - Metric Pan H - HE A - Carto E - Other
36-40	Elevation	Elevation of point referenced to Mean Sea Level, right justified, zero filled. Column 36 has a minus sign for elevation below Mean Sea Level.
41-76	Blank	
77	Elevation Change	Code to explain status of elevation. N = no change I = initial point selection or RP moved L = change in elevation of less than 30 ft G = changes equal to or greater than 30 ft
78-80	Publication Date	YMM

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CONCLUDING MATERIAL

Custodians:
DMA-MP

Preparing activity:
DMAAC-MP

Review activities:
Air Force-09
USCONTCOM-J37/J22
USEUCOM-ECJ2-T

(Project MCGT-0034)

User activities:
Army
Navy
Air Force

