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STANAG No. 7090
(Edition 1)

NORTH ATLANTIC TREATY ORGANIZATION
(NATO)

MILITARY AGENCY FOR STANDARDIZATION
(MAS)

STANDARDIZATION AGREEMENT
(STANAG)

SUBJECT: GUIDE SPECIFICATION FOR NATO GROUND FUELS

Promulgated on 20 May 1996

G.B. FERRARI
Major-General, ITAF
Chairman, MAS

Information Handling Services, 2000

RECORD OF AMENDMENTS

No.	Reference/date of amendment	Date entered	Signature
1	MAS126-ILCEP/7090 20-1-98	10-4-00	R. Bowlton
2	MAS/294-ILCEP/7090 14-7-98	10-4-00	R. Bowlton
3	MAS/753-SILCEP/7090 16-6-99	10-4-00	R. Bowlton

EXPLANATORY NOTES

AGREEMENT

1. This NATO Standardization Agreement (STANAG) is promulgated by the Chairman MAS under the authority vested in him by the NATO Military Committee.

2. No departure may be made from the agreement without consultation with the tasking authority. Nations may propose changes at any time to the tasking authority where they will be processed in the same manner as the original agreement.

3. Ratifying nations have agreed that national orders, manuals and instructions implementing this STANAG will include a reference to the STANAG number for purposes of identification.

DEFINITIONS

4. Ratification is "In NATO Standardization, the fulfilment by which a member nation formally accepts, with or without reservation, the content of a Standardization Agreement" (AAP-6).

5. Implementation is "In NATO Standardization, the fulfilment by a member nation of its obligations as specified in a Standardization Agreement" (AAP-6).

6. Reservation is "In NATO Standardization, the stated qualification by a member nation that describes that part of a Standardization Agreement that it will not implement or will implement only with limitations" (AAP-6).

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

7. Page iii gives the details of ratification and implementation of this agreement. If no details are shown it signifies that the nation has not yet notified the tasking authority of its intentions. Page iv (and subsequent) gives details of reservations and proprietary rights that have been stated.

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RATIFICATION AND IMPLEMENTATION DETAILS
STADE DE RATIFICATION ET DE MISE EN APPLICATION

NATION	NATIONAL RATIFICATION REFERENCE DE LA RATIFICATION NATIONALE	NATIONAL IMPLEMENTING DOCUMENT NATIONAL DE MISE EN APPLICATION	IMPLEMENTATION/MISE EN APPLICATION					
			FORECAST DATE PREVUE			ACTUAL DATE REELLE		
			NAVY MER	ARMY TERRE	AIR	NAVY MER	ARMY TERRE	AIR
BE	VS3/MAS-95-545/1(JSO-G/POL) of/du 23.10.95	STANAG				10.95	10.95	10.95
CA	2441-7090 (DPMCE 5) of/du 24.5.96	STANAG					5.96	
DA	MA 204.68-S7090/MAM 3-19950 of/du 27.9.95	STANAG					8.96	
FR	No 7819/DEF/DCSEA/SDE.1/ 189/00/7090 of/du 6.12.95	STANAG				1.96	1.96	1.96
GE	BMVg-Fü S 1V 2-AZ 03-5I-60 of/du 10.7.97	STANAG				10.96	10.96	10.96
GR*	FN.069.1/103/216043/DN1460/1 3-9-95/HAGS/DPPD/3 of/du 23.7.97 of/du 31.5.95	STANAG					5.97	
IT	SMDN 143/41001/4522.7090/ SOT of/du 15.12.97	STANAG	1.99	1.99	1.99			
LU	NOT PARTICIPATING/NE PARTICIPE PAS							
NL*	NW 95069019 of/du 25.9.95	RNLAF & RNLAR: STANAG RNLNA: MMR 134				5.96	5.96	5.96
NO								
PO	CHOD PO RRN 122/96/DA of/du 26.6.96	STANAG				5.96		5.96
SP*	NOROPE 086/7090/011D of/du 16.11.95	STANAG				1.96	1.96	1.96
TU*	Gn.P.P:2307-745-95/And.D. of/du 28.9.95	STANAG				8.96	8.96	8.96
UK	D Def Sys/340/090/NMST of/du 29.3.96	See overleaf/voir au verso				5.96	5.96	5.96
US	WL/POSF of/du 8.11.95	See overleaf/voir au verso					5.96	

See overleaf reservations(*)/comments (+)
Voir au verso réserves (*)/commentaires (+)

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RESERVATIONS

GR: Hellenic Air Force and Army will implement this STANAG only for fuels having NATO guide specification F-57, F-58 and F-67. The remaining fuels are not used in Hellenic Armed Forces.

NL: RNLAF and RNLAR: Page A-1, Serial 1.

Density column D. ASTM D-4052 (instead of ASTM D-1298)
Sulphur column D. ASTM D-2622 (instead of ASTM D-129).

SP: Spain will follow norm EN 590 for fuel F-54. Spain will provide F-34 instead of F-58. In Spain F-65 will be a fifty-fifty mix of National Fuel (EN 590) and F-34.

TU: Since only the F-54 fuel is being used in Turkey, Enclosure 1 will be implemented. The F-54 fuel is 0.80 kg/lt. at 15°C.

RESERVES

GR: L'Armée de l'Air et l'Armée de Terre grecques ne mettront le présent STANAG en application qu'en ce qui concerne les spécifications de référence OTAN des F-57, F-58 et F-67, les autres carburants n'étant pas utilisés par les Forces armées grecques.

NL: Armée de l'Air et Armée de Terre néerlandaises: Page A-1, No. 1.

Masse volumique, colonne D, ASTM D-4052 (au lieu d'ASTM D-1298)
Soufre total, colonne D, ASTM D-2622 (au lieu d'ASTM D-129).

SP: L'Espagne appliquera la norme EN 590 en ce qui concerne le F-54. Elle fournira du F-34 à la place du F-58. En Espagne, le F-65 sera un mélange à 50 % de carburant national (EN 590) et F-34.

TU: Etant donné que la Turquie n'utilise que du F-54, elle mettra en application la Pièce jointe 1. La masse volumique du F-54 à 15°C est de 0,80 kg/l.

NATIONAL IMPLEMENTING DOCUMENTS/ DOCUMENTS NATIONAUX DE MISE EN APPLICATION

UK: F-54: Def Stan 91-9/3, F-58: BS 2869, F-65: STANAG 7090, F-57: BS 4040, F-67: BS EN 228.

US: F-54: Fed Spec VV-F-800, F-58: ASTM D3699-92, F-65: no implementing document. Guide for Blending Diesel Fuel with Aviation Kerosenes is widely used, F-57: US uses F-67 in lieu of F-57, F-67: CEN EN 228.

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NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD

MILITARY AGENCY FOR STANDARDIZATION (MAS)
BUREAU MILITAIRE DE STANDARDISATION (BMS)
1110 BRUSSELS

Tel.: 707.5587
Fax: (32.2)707.5718
AIR BOARD

MAS(AIR)164-IF&L/7090

20 May 1996

To : See Distribution List Air B

Subject : STANAG 7090 IF&L (EDITION 1) - GUIDE SPECIFICATION FOR NATO GROUND FUELS

Reference : MAS(AIR)223-IF&L/7090 dated 26 June 1995 (Edition 1) (1st Draft)

Enclosure : STANAG 7090 (Edition 1)

1. The enclosed NATO Standardization Agreement which has been ratified by nations as reflected in page iii is promulgated herewith.

2. The reference listed above is to be destroyed in accordance with local document destruction procedures.

3. AAP-4 should be amended to reflect the latest status of the STANAG.

ACTION BY NATIONAL STAFFS

4. National staffs are requested to examine page iii of the STANAG and if they have not already done so, to advise the Air Board, MAS, through their national delegation as appropriate of their intention regarding its ratification and implementation.

G.B. FERRARI
Major-General, ITAF
Chairman, MAS

33-FB
AIR164

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Agreed English/French Texts

STANAG 7090
(Edition 1)

NAVY/ARMY/AIR

NATO STANDARDIZATION AGREEMENT (STANAG)

GUIDE SPECIFICATION FOR NATO GROUND FUELS

WARNING (see paragraph 9)

Annexes
- A. NATO Guide Specification for Diesel Fuel, Military F-54
- B. NATO Guide Specification for Kerosene, F-58
- C. NATO Guide Specification for Low Temperature Diesel Fuel Blend, F-65
- D. NATO Guide Specification for Gasoline Automotive Leaded - Military/Civilian - F-57
- E. NATO Guide Specification for Gasoline Automotive Unleaded - Military/Civilian - F-67

Related Document: STANAG 1135 IF&L - INTERCHANGEABILITY OF FUELS, LUBRICANTS AND ASSOCIATED PRODUCTS USED BY THE ARMED FORCES OF THE NORTH ATLANTIC TREATY NATIONS

AIM

1. The aim of this agreement is to provide guide specifications which establish the minimum quality for fuels used in ground service operations by NATO forces.

AGREEMENT

2. Participating nations agree that the guide specifications at Annexes A to E represent the minimum quality acceptable under the appropriate NATO code number.

DETAILS OF THE AGREEMENT

3. It is agreed that nations' specifications shall comply with these minimum requirements before being acceptable as providing standardized products under the appropriate NATO code number.

4. It is agreed that, in order to promote product development, any nation's specification may include additional tests, or improved quality requirements to those in the relevant guide specification.

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5. It is agreed that guide specifications shall be subject to review with the object of improving the product quality as required by operational use.

GENERAL

6. STANAG 1135, Annex C lists, under individual product descriptions, national specifications which have been agreed as interchangeable.

7. Under previous agreements, a single national specification has been selected for each ground fuel to provide the quality standard which other nations' specifications are expected to meet in order to achieve interchangeability. However, product development is constantly in progress, and national specifications are frequently revised to take advantage of this. Thus, a nation whose specification is used as a guide may find it difficult to make such changes without altering the product quality standard in a manner unacceptable to other nations.

8. NATO guide specifications have therefore been prepared to define the minimum quality requirements of the most important products. Further specifications may be prepared as considered necessary.

9. The quality standards contained in this document are to be used by Member Nations (MNs) in the preparation and maintenance of their individual procurement specifications and standards. A MNs' individual procurement document may be more stringent depending upon its equipment. This STANAG is not designed to be used in the direct procurement of products.

IMPLEMENTATION OF THE AGREEMENT

10. This STANAG is implemented when nations have published or revised their specifications in sufficient detail to comply with the requirements of the STANAG.

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NATO GUIDE SPECIFICATION FOR DIESEL FUEL: MILITARY F-54

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS (2)	NOTES
1	Appearance	-	Visual	Clear, bright and free from solid matter and undissolved water at ambient temperatures	
2	Density at 15°C	kg/m3	ISO 3675/ISO 12185	800-845	In case of dispute ISO 3675 prevails
3	Distillation 10% 50% 90% Residu %v/v recovered at 180°C %v/v recovered at 340°C	%v/v	ISO 3405	 Report Report Report 3 max 10 min 95	
4	Flash point	°C	ISO 2719	min 56	
5	Cloud point	°C	ISO 3015	max –10	(1)
6	CFPP	°C	EN 116	max –20	(1)
7	Viscosity at 40°C	mm2/s	ISO 3104	1,5 – 4,0	
8	Sulfur content	% m/m	ISO 4260/ ISO 8754 EN ISO 14596	max 0,050	
9	Copper strip corrosion (3 hours at 50°C)	rating	ISO 2160	class 1	
10	Carbon residu (on 10% distillation residu)	% m/m	ISO 10370	max 0,30	

AMENDMENT 3

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11	Ash content	% m/m	ISO 6245	max 0,01	
12	Oxidation stability	g/m3	ISO 12205	max 25	
13	Water content	mg/kg	pr EN ISO/DIS 12937	max 200	
14	Total contamination	mg/kg	EN 12662	max 24	
15	Cetane number	-	ISO 5165	min 47	
16	Cetane index	-	ISO 4264	min 46	
17	Corrosion inhibitor	-		as required by the procuring agency	only approved additives may be used
18	Lubricity, corrected wear scar diameter at 60°C	µm	ISO 12156-1	max 460	

(1) Cold flow properties may vary depending on the geographical location and season. Nations should inform users if the cold flow properties are different than the values listed. Diesel fuel used for long-term storage should meet the cold flow properties listed in the table of the guide specifications.

(2) For operating temperatures persistently below -15°C, the use of the Annex to STANAG 4362 (SFC) is needed.

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NATO GUIDE SPECIFICATION FOR KEROSENE : F-58

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
1	Composition	-	-	The product shall consist of hydrocarbons suitable for burning, heating and lighting	
2	Colour Saybolt	Colour units	ASTM D156	20 min	
3	Colour stability (15 hrs at 100°C)	Colour units	ASTM D156	16 min	
4	Distillation - initial boiling point - final boiling point	°C -	ASTM D86	120 min 300 max	
5	Sulphur content	% m/m	ASTM D1266	0.15 max	
6	Flash point	°C	ASTM D56	38 min	
7	Smoke point	mm	ASTM D1322	20 min	
8	Pour point	°C	ASTM D97	-20 max	CA & GE require -40°C

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N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
9	Burning Quality	ml/h	ASTM D187	Pass	Burning rate shall be >25 ml/h after 16 hrs
10	Copper Corrosion (3 hrs at 50°C)	Classification	ASTM D130	1 max	

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NATO GUIDE SPECIFICATION FOR LOW TEMPERATURE DIESEL FUEL BLEND : F-65

Products complying with this Guide Specification shall consist of a 50 : 50 mixture of NATO F-54 or F-75 with a kerosene fuel which has freezing point of -47°C maximum.

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NATO GUIDE SPECIFICATION FOR GASOLINE AUTOMOTIVE LEADED - MILITARY/CIVILIAN : F-57

A. The following properties shall be requirements of this specification

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST (1) METHODS (2)	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
1	Appearance	-	Visual	Clear, bright and free from solid matter and undissolved water at ambient temperature	1. The test methods referred to in this specification are those to be used in the event of any dispute. Alternative test methods may be used provided that they originate from a recognized method series, and have a valid precision statement, derived in accordance with ASTM D3244, which demonstrates a precision at least equal to that of the referenced method. The test result, when using the alternative method, shall have a demonstrable relationship to the result obtained from the reference method

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N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
2	Density at 15°C	kg/m3	ASTM D1298	720 - 780	2. The test methods shall be the latest pubished editions
3	Existent gum (washed)	mg/100 ml	ASTM D381	5 max	
4	Oxidation stability	minutes	ASTM D525	360 min	
5	Sulphur content	% m/m	ASTM D1266	0.10 max	
6	Benzene content	% v/v	ASTM D2267	5.0 max	
7	Lead content	g/l	ASTM D3341	0.05 - 0.15	
8	Copper corrosion (3 hours at 50°C)	classification	ASTM D130	1 max	
9	Octane Number Research Method Motor Method		 ASTM D2699 ASTM D2700	 96.0 min 86.0 min	

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B. The following properties are requirements of this specification but the test limits shall be set by the national authorities.
Gasoline for procurement and the use within national boundaries shall have the volatility requirements controlled by the properties in the following table. The test limits shall be set in accordance with the classes shown depending on geographical and climatic conditions.

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS						NOTES
(a)	(b)	(c)	(d)	(e)						(f)
					1	2	3	4	5	
10	Vapour pressure (Reid)	kPa	ASTM D323	min	35	45	55	60	70	
				max	70	80	90	95	105	
11	Distillation		ASTM D86							
	% evaporated at 70°C	% v/v		min	10	10	15	15	20	3. The VLI (vapour lock index) is derived from the equation VLI = RVP + 7.E70 Where : RVP is reid Vapour Pressure in hPa (kPa x 10) E70 is %v/v evaporated at 70°C
				max	45	45	47	47	50	
	100°C			min	38	38	43	43	43	
				max	65	65	70	70	70	
	180°C			min	85	85	85	85	85	
	Final boiling point	°C		max	215	215	215	215	215	
	Residue	% v/v		max	2	2	2	2	2	
12	VLI (3)			max	900	1000	1100	1200	1300	

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C. The following properties and test limits may be set at the option of the national specification authority.

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
13	Colour	-	Visual	As required	
14	Additives including oxygenates	-		Added as required to ensure that the product fully complies with the requirements of this specification	

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NATO GUIDE SPECIFICATION FOR GASOLINE AUTOMOTIVE UNLEADED - MILITARY/CIVILIAN : F-67

A. The following properties shall be requirements of this specification

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST (1) METHODS (2)	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
1	Appearance	-	Visual	Clear, bright and free from solid matter and undissolved water at ambient temperature	1. The test methods referred to in this specification are those to be used in the event of any dispute. Alternative test methods may be used provided that they originate from a recognized method series, and have a valid precision statement, derived in accordance with ASTM D3244, which demonstrates a precision at least equal to that of the referenced method. The test result, when using the alternative method, shall have a demonstrable relationship to the result obtained from the reference method

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N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
2	Density at 15°C	kg/m3	ASTM D1298	720 - 780	2. The test methods shall be the latest pubished editions
3	Existent gum (washed)	mg/100 ml	ASTM D381	5 max	
4	Oxidation stability	minutes	ASTM D525	360 min	
5	Sulphur content	% m/m	ASTM D1266	0.10 max	
6	Benzene content	% v/v	ASTM D2267	5.0 max	
7	Lead content	g/l	ASTM D3341	0.013 max	
8	Copper corrosion (3 hours at 50°C)	classification	ASTM D130	1 max	
9	Octane Number				
	Research Method		ASTM D2699	95.0 min	
	Motor Method		ASTM D2700	85.0 min	

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B. The following properties are requirements of this specification but the test limits shall be set by the national authorities.
Gasoline for procurement and the use within national boundaries shall have the volatility requirements controlled by the properties in the following table. The test limits shall be set in accordance with the classes shown depending on geographical and climatic conditions.

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS						NOTES
(a)	(b)	(c)	(d)	(e)						(f)
					1	2	3	4	5	
10	Vapour pressure (Reid)	kPa	ASTM D323	min	35	45	55	60	70	
				max	70	80	90	95	105	
11	Distillation		ASTM D86							
	% evaporated at 70°C	% v/v		min	10	10	15	15	20	3. The VLI (vapour lock index) is derived from the equation VLI = RVP + 7.E70 Where : RVP is reid Vapour Pressure in hPa (kPa x 10) E70 is %v/v evaporated ad 70°C
				max	45	45	47	47	50	
	100°C			min	38	38	43	43	43	
				max	65	65	70	70	70	
	180°C			min	85	85	85	85	85	
	Final boiling point	°C		max	215	215	215	215	215	
	Residue	% v/v		max	2	2	2	2	2	
12	VLI (3)			max	900	1000	1100	1200	1300	

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C. The following properties and test limits may be set at the option of the national specification authority.

N°	REQUIREMENTS	UNITS OF MEASUREMENT	TEST METHODS	LIMITS	NOTES
(a)	(b)	(c)	(d)	(e)	(f)
13	Colour	-	Visual	As required	
14	Additives including oxygenates	-		Added as required to ensure that the product fully complies with the requirements of this specification	

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NATO GUIDE SPECIFICATION FOR DIESEL ENGINE FUEL; KEROSENE TYPE : F-63

Product complying with this Guide Specification shall consist of kerosine type turbine fuel; F-34,F-35 or F-44, treated with an S-1750 approved additive. The name, type and dosage of the additive shall be declared on delivery.

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NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD

MILITARY AGENCY FOR STANDARDIZATION (MAS)
BUREAU MILITAIRE DE STANDARDISATION (BMS)
1110 BRUSSELS

Tel : 707.43.37
Fax : 707.52.29

20 January 1998 MAS/26-ILCEP/7090

See Distribution List: STANAG AC/112 (ARMY FLWP)

STANAG 7090 ILCEP (EDITION 1)(AMENDMENT 1) - GUIDE SPECIFICATION FOR NATO GROUND FUELS

Reference:
MAS(AIR)164-IF&L/7090 of 20 May 1996 (Edition 1)

1. The subject STANAG was promulgated by the document at reference. Addressees are requested to destroy the existing pages iii/iv of the STANAG and substitute the revised ones attached.

2. AAP-4 should be amended to reflect the latest status of the STANAG.

A. GRØNHEIM
Major General, NOAF
Chairman MAS

Enclosure:
Revised ratification/implementation details

664mv/26a(98)

Information Handling Services, 2000

NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD

MILITARY AGENCY FOR STANDARDIZATION (MAS)
BUREAU MILITAIRE DE STANDARDISATION (BMS)
1110 BRUSSELS

Tel : 707.43.37
Fax : 707.52.29

14 July 1998 MAS/294-ILCEP/7090

See Distribution List: STANAG AC/112 (ARMY FLWP)

STANAG 7090 ILCEP (EDITION 1)(AMENDMENT 2) - GUIDE SPECIFICATION FOR NATO GROUND FUELS

Reference:
MAS(AIR)164-IF&L/7090 of 20 May 1996 (Edition 1)

1. The subject STANAG was promulgated by the document at reference. Addressees are requested to destroy the existing pages 1/2 of the STANAG and substitute the revised ones attached.

2. AAP-4 should be amended to reflect the latest status of the STANAG.

A. GRØNHEIM
Major General, NOAF
Chairman MAS

Enclosure:
Revised pages 1/2

664mv/294a(98)

Information Handling Services, 2000

NATO UNCLASSIFIED

NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD

MILITARY AGENCY FOR STANDARDIZATION (MAS)
BUREAU MILITAIRE DE STANDARDISATION (BMS)
1110 BRUSSELS

Tel : 707.43.37

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16 June 1999

MAS/753-SILCEP/7090

See Distribution List: STANAG AC/112 (ARMY FLWG)

STANAG 7090 SILCEP (EDITION 1)(AMENDMENT 3) - GUIDE SPECIFICATION FOR NATO GROUND FUELS

Reference:
MAS(AIR)164-IF&L/7090 dated 20 May 1996 (Edition 1)

1. The subject STANAG was promulgated by the document at reference. Addressees are requested to destroy the existing pages A-1/2 and F-1 of the STANAG and substitute the revised ones attached.

2. AAP-4 should be amended to reflect the latest status of the STANAG.

for A. GRØNHEIM
Major General, NOAF
Chairman MAS

Enclosure:
Revised pages A-1/2 and F-1

753E-99ST7090(mv)

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