

INCH-POUND

MIL-G-27617E

15 April 1994

SUPERSEDING

MIL-G-27617D

14 November 1984

MILITARY SPECIFICATION**GREASE, AIRCRAFT AND INSTRUMENT, FUEL AND OXIDIZER RESISTANT**

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

1. SCOPE

1.1 Scope. This specification covers the requirements for greases resistant to hydrocarbon fuel and liquid oxygen and for use as lubricants in aircraft, aerospace vehicles, and supporting equipment (see 6.1). These greases are identified by NATO code numbers as follow (see 6.5)

TYPE	NATO NUMBER
I	G-397
II	G-398
III	G-399
IV	G-1350

1.2 Classification. Use shall be of the following types, as specified (see 6.1)

Type I	-54°C to 149°C (-65°F to 300°F) operating temperature
Type II	-40°C to 204°C (-40°F to 400°F) operating temperature
Type III	-34°C to 204°C (-30°F to 400°F) operating temperature
Type IV	-73°C to 204°C (-100°F to 400°F) operating temperature
Type V	-73°C to 232°C (-100°F to 450°F) operating temperature

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to ASC/ENOSD, 2335 Seventh Street, Suite 6, Wright-Patterson AFB OH 45433-7809, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter

AMSC N/A

FSC 9150

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

MIL-G-27617E**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 issue of the *Department of Defense Index of Specifications and Standards (DoDISS)* and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS**FEDERAL**

P-D-680	Dry Cleaning Solvent
O-E-751	Ether, Petroleum, Technical-Grade

MILITARY

MIL-M-7866	Molybdenum Disulfide, Technical, Lubrication Grade
MIL-S-7952	Steel, Sheet and Strip, Uncoated, Carbon (1020 and 1025) Aircraft Quality

STANDARDS**FEDERAL**

FED-STD-313	Material Safety Data Transportation and Disposal Data for Hazardous Materials Supplied to Government Activities
FED-STD-791	Lubricants, Liquid Fuels, and Related Products, Methods of Testing

MILITARY

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-290	Packaging of Petroleum and Related Products

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Defense Printing Service Detachment Office, 700 Robbins Avenue, Building 4D, Philadelphia PA 19111-5094, phone (215) 697-2667.)

MIL-G-27617E

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DEPARTMENT OF LABOR (DOL)

OSHA 29 CFR 1910.1200 – Federal Register, Part IV, Department of Labor, OSHA Hazardous Communication Final Rule

(Application for copies should be addressed to the OSHA Publication Office, Room S-4203, 200 Constitution Avenue NW, Washington DC 20210.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the *DoDISS* cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the *DoDISS* are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ANSI/ASTM D130	Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
ANSI/ASTM D942	Oxidation Stability of Lubricating Greases by the Oxygen Bomb Method
ANSI/ASTM D1264	Water Washout Characteristics of Lubricating Greases
ANSI/ASTM D1403	Cone Penetration of Lubricating Grease Using One-Quarter and One-Half Scale Cone Equipment
ANSI/ASTM D1478	Low Temperature Torque of Ball Bearing Greases
ANSI/ASTM D2266	Wear Preventive Characteristics of Lubricating Grease (Four-Ball Method)
ASTM D2512	Compatibility of Materials with Liquid Oxygen (Impact Sensitivity Threshold Technique)
ANSI/ASTM D2595	Evaporation Loss of Lubricating Greases Over Wide-Temperature Range
ANSI/ASTM D2596	Measurement of Extreme-Pressure Properties of Lubricating Grease (Four-Ball Method)
ANSI/ASTM D3336	Test Method for Performance Characteristics of Lubricating Greases in Ball Bearings at Elevated Temperatures
ANSI/ASTM D4057	Standard Practice for Manual Sampling of Petroleum and Petroleum Products
ANSI/ASTM D4177	Standard Method for Automatic Sampling of Petroleum and Petroleum Products

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia PA 19103-1187.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

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

MIL-G-27617E**3. REQUIREMENTS**

3.1 Qualification. The grease furnished under this specification shall be a product which has been tested and has passed the qualification tests specified herein, and which has been listed or approved for listing on the applicable Qualified Products List (QPL) (see 4.3 and 6.3)

3.2 Materials. The grease shall be a smooth, homogeneous compound that consists essentially of a gelling agent and a suitable liquid lubricant. It shall be of uniform consistency and appearance and be essentially free of separated fluid when examined visually. Type V shall be formulated with a sufficient concentration of molybdenum disulfide as specified in *MIL-M-7866* to enhance the extreme pressure and antiwear properties and shall not contain graphite.

3.2.1 Carcinogens. The contractor shall certify that no carcinogenic constituents are present as defined under *OSHA 29 CFR 1910.1200*. Certification to that effect shall be made to the Contracting Officer or Contracting Office Representative.

3.3 Chemical and physical requirements. Products shall conform to the requirements as specified in table I and 3.4 through 3.7.

3.4 Resistance to fuel

3.4.1 Solubility in fuel. When tested as specified in 4.5.1, the grease solubility in fuel shall be not greater than 20 percent by weight for type II, type III, and type IV.

3.4.2 Resistance to fuel. When tested as specified in 4.5.1, a layer of grease on an aluminum test panel shall not be visibly affected by immersion in fuel. The fuel shall not cause swelling, blistering, or cracking of the grease, nor shall the adhesion of the grease to the metal be weakened.

3.5 Resistance to aqueous solutions. When tested as specified in 4.5.1, the grease shall not disintegrate nor dissolve in distilled water or in a 50-percent solution of alcohol in distilled water.

3.6 Film stability and corrosion on steel. When tested as specified in 4.5.4, a film of the grease shall withstand exposure to 100°C (212°F) for one week without forming a hard, resinous deposit and there shall be no evidence of corrosion on the steel panels.

3.7 Storage stability. When stored for eight months as specified in 4.5.1, penetration requirements will comply with table II. Slight separation of oil from thickener shall not be cause for rejection.

3.8 Toxicity. The grease shall have no adverse effect on the health of personnel when used for its intended purpose. The fluid shall contain no components which produce noxious vapors in such concentrations as to be an irritant to personnel during formulation or use under conditions of adequate ventilation. Exercise caution to avoid prolonged contact with the skin and observe Occupational Safety and Health Administration (OSHA) guidelines. Questions pertaining to the toxic effects shall be referred to the appropriate departmental medical service who will act as an advisor to the Procuring Activity (see 4.3).

MIL-G-27617E

TABLE I. Chemical and physical requirements

REQUIREMENTS	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V
Unworked penetration (min)	300	200	200	225	260–310
Worked penetration	310–340	265–310	265–310	235–310	270–300
Corrosion on copper (max)	¹ 2b	¹ 2b	¹ 2b	¹ None	¹ None
High temperature bearing performance	² 500 hours	² 500 hours	² 500 hours	² 500 hours	³ 600 hours
Evaporation, percent (max)	⁴ 25.0	⁵ 15.0	⁵ 12.0	⁵ 15.0	⁶ 3.0
Oil separation at 204°C (400°F) 30 hours, percent (max)	—	15	20	20	12
Antiwear, scar diameter mm (maximum) 40 Kg load 52100, 75°C (167°F) 52100, 204°C (400°F)	— —	— —	— —	1.0 1.3	1.25 3.0
Extreme pressure weld, Kg (min)	—	—	—	500	600
Solubility in fuel, percent (max)	—	20	20	20	—
⁷ Liquid oxygen impact sensitivity 20 impacts at 1100 mm (43.3 inches)	No reaction	No reaction	No reaction	No reaction	
Water washout characteristics	—	20% max	—	—	—
Oxidation stability — pressure drop, psi (max)	—	5	—	—	—
Low temperature torque gm-cm at –62°C (–80°F) (min)	—	—	—	Start 800 Run 300	—
Low temperature torque gm-cm at –73°C (–100°F) (min)	—	—	—	Start 2800 Run 800	Start 3000 Run 2000
Molybdenum disulfide content, percent (min)	—	—	—	—	5.0
Dirt count 25–74 micron diameter (max) 75 micron diameter and over	1000 0	1000 0	1000 0	1000 0	

¹ ASTM D130 rating, no pitting or etching under minimum 30× magnification² 10,000 revolutions per minute at 204°C (400°F)³ 10,000 revolutions per minute at 232°C (450°F)⁴ 22 hours at 149°C (300°F)⁵ Test conditions 22 hours at 204°C (400°F)⁶ 72 hours at 232°C (450°F)⁷ Use perchloroethylene instead of trichlorotrifluoroethane

TABLE II. Penetration requirements

REQUIREMENTS	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V
Unworked penetration (min)	300	200	200	225	280
Change in worked penetration (units max)	30	30	30	30	30

MIL-G-27617E

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 his 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 the specification where such inspections are deemed necessary to ensure supplies 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 supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing 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.

4.2 Classification of inspections. The examination and testing of the grease shall be classified as follows:

- a Qualification inspection (see 4.3)
- b Periodic qualification re-evaluation (see 4.3.4)
- c Quality conformance inspection (see 4.4)

4.3 Qualification inspection

4.3.1 Qualification inspection. The qualification inspection performed by the qualification laboratory shall consist of a review for approval of the submitted manufacturer's report and subjecting the qualification sample to examination and testing to determine conformance to this specification.

4.3.2 Qualification sample. The qualification sample shall consist of a minimum of two pounds of grease. The sample shall be properly identified and forwarded to the activity responsible for inspection as specified in the letter of authorization from that activity (see 6.3).

4.3.2.1 Data to accompany qualification samples. The samples shall be accompanied by a test report that contains complete information from the manufacturer or a commercial laboratory as to the following: source and type of base stock and additive materials used, the formulation and composition of the finished fluid, and laboratory data showing actual, quantitative results of all tests required by this specification except storage stability. Separate qualification inspections shall be required for each base stock used. Submission of the Material Safety Data Sheet (MSDS) is a requirement. One copy of the MSDS shall be sent with each sample submitted for test. The samples, MSDS's, and reports shall be forwarded to the Wright Laboratory, Materials Directorate, System Support Division, WL/MLSE, BLDG 652, 2179 Twelfth Street, STE 1, Wright-Patterson AFB OH 45433-7718. The samples shall be plainly identified by securely attached, durable tags or labels marked with the following information:

“Sample for Qualification Inspection
 GREASE, AIRCRAFT AND INSTRUMENT, FUEL AND OXIDIZER RESISTANT
 Name of ingredient (for ingredient material)
 Name of manufacturer
 Product code number
 Date of manufacture
 Submitted by (Name) and (date) for qualification inspection in accordance with the requirements of MIL-G-27617 under authorization of (reference authorizing letter)” (See 6.3)

MIL–G–27617E

4.3.2.2 Formulation sheets. An example of a satisfactory form for the formulation sheet, indicating the percent by weight and purpose of each ingredient, is as follows

Base oil(s) (composition and source)	percent
Antiwear additive (composition and source)	percent
Oxidization inhibitor (composition and source)	percent
Other additives (composition and source)	percent

4.3.3 Retention of qualification. In order to retain qualification of approval for listing on the QPL, the manufacturer shall verify, by certification to the Qualifying Activity, that the manufacturer's product complies with the requirements of this specification. The time of periodic verification by certification shall be in two-year intervals from the date of original qualification. The Government reserves the right to re-examine the qualified product whenever deemed necessary to determine the product continues to meet any or all of the specification requirements.

4.3.4 Periodic qualification re-evaluation. The grease shall pass a qualification re-evaluation of a one-pound sample taken from the first lot of grease processed under a contract or order after the product has passed the qualification inspection, and at intervals as considered necessary to verify the consistency of production quality.

4.4 Quality conformance inspection. The quality conformance inspection shall consist of sampling plans A and B. Quality conformance inspection shall consist of examination of the sample-filled containers (see 4.5.4) and testing the sample against all requirements specified in section 3 except for high temperature performance, storage stability, and shock sensitivity with liquid oxygen. Samples shall be labelled completely with information that identifies the purposes of the sample, name of the product, specification number, lot and batch number, date of sampling, and contract number.

4.4.1 Sampling plan A. A one-pound bulk lot (see 4.4.1.1) shall be selected in accordance with *ASTM D4057* or *ASTM D4177* and subjected in inspection and tests specified in 4.5.1 except for high temperature performance, liquid oxygen shock sensitivity, and storage stability. If the sample for test fails any of the quality conformance tests, the inspection lot shall be rejected.

4.4.1.1 Bulk lot. By definition, a bulk lot shall be an indefinite quantity of a homogeneous mixture of material offered for acceptance in a single, isolated container, or manufactured by a single plant run not to exceed 24 hours through the same processing equipment, with no change in ingredient material.

4.4.2 Sampling plan B. A random sample of filled unit containers and a sample of shipping containers fully prepared for delivery shall be selected from each packaged lot (see 4.4.2.1) of fluid in accordance with *MIL–STD–105*, Inspection Level II. The sample(s) shall be subjected to inspections specified in 4.5.4.

4.4.2.1 Packaged lot. By definition, a packaged lot shall be an indefinite number of 55-gallon drums or smaller unit packages of identical size and type, offered for acceptance and filled with a homogeneous mixture of material from one isolated container, or filled with a homogeneous mixture of material manufactured by a single plant run through the same processing equipment, with no change in ingredient material.

MIL-G-27617E

4.4.3 Sampling Sampling shall be in accordance with *FED-STD-791*, Method 8001

4.4.4 Submission of material safety data sheets. The contractor shall furnish to the Contracting Activity the toxicological data and formulations required to evaluate the safety of the material for the proposed use through the submission of the MSDS detailed in *FED-STD-313*

4.4.5 Ozone depleting chemicals (ODCs). The contractor shall certify that ODCs were not used in the production or processing of the grease

4.5 Method of inspection and tests

4.5.1 Inspection Inspection shall be in accordance with *FED-STD-791*, Method 9601, and 4.5.4 of this specification

4.5.2 Inspection tests. The tests of this specification shall be conducted in accordance with test methods of *FED-STD-791* and as specified in table III and 4.5.3 of this specification

TABLE III Test methods.

TEST	TEST METHOD NUMBER	
	<i>FED-STD-791</i>	<i>ASTM</i>
Penetration		<i>D1403</i>
Corrosion in copper	¹ 5309	
High temperature performance		<i>D3336</i>
Evaporation		<i>D2595</i>
Oil separation	321	
Resistance to fuel, fuel solubility	5414	
Resistance to aqueous solutions	5415	
Storage stability	² 3467	
Water resistance		² <i>D1264</i>
Oxidation stability		³ <i>D942</i>
Shock sensitivity with liquid oxygen		<i>D2512</i>
Wear preventive characteristics		<i>D2266</i>
Extreme pressure properties of lubricating grease		<i>D2596</i>
Low temperature torque of ball bearing greases		<i>D1478</i>
Molybdenum disulfide analysis	3722	
Dirt count	3005	

¹ Except the copper strip shall be prepared and polished in accordance with *ASTM D130* method

² Test temperature shall be 38°C ± 3°C (100°F ± 5°F)

³ Test conditions shall be 100 hours at 121°C (250°F)

MIL-G-27617E

4.5.3 Examination of product. The sample grease shall be inspected visually and a suitable portion shall be worked with a spatula on a glass surface. After working, the grease shall be spread with a straight edge and observed for uniformity as indicated by a smooth surface.

4.5.4 Film stability and corrosion on steel. Surface ground test panels of 1020 steel which conform to *MIL-S-7952* and measure 0.32 cm × 5.08 cm × 10.16 cm (1/8 in × 2 in × 4 in) shall be employed. Aluminum shims which measure 0.04 cm × 2.54 cm × 5.08 cm (1/64 in × 1 in × 2 in) shall be employed as spacers. The test panels shall be cleaned in hot, dry cleaning solvent that conforms to type I of *P-D-680*, followed by immersion in petroleum ether (ligroine) that conforms to *O-E-751*. One of the shims shall be placed at each end of a panel to provide a test area that measures approximately 5 cm × 5 cm. Approximately 2 gm of the grease shall be placed in the center of the test panel. Another panel shall be placed on top and two panels shall be pressed together and clamped to form the test assembly. Grease that exudes from the test assembly shall be cleaned off with a spatula. The test assembly shall then be placed in an oven maintained at 100°C (212°F) for one week. Upon removal from the oven, the test assembly shall be dismantled and the grease shall be examined for indications of hardening, separation, and evident changes other than color. The area of the test panels which were in contact with the grease shall be examined for evidence of corrosion.

4.5.5 Examination of filled containers. Each sample of filled container and shipping container shall be examined for defects of construction of the container and closure, evidence of leakage, and net content. Any container in the sample that has one or more defects or under required fill shall be rejected and, if the number of defective containers in any sample exceeds the acceptance number for the appropriate sampling plan of *MIL-STD-105*, the lot represented by the sample shall be rejected. Rejected lots may be resubmitted for quality conformance inspection provided the contractor has removed or repaired all nonconforming containers.

5. PACKAGING

5.1 Packaging and packing. The grease shall be packaged and packed for the level specified in accordance with *MIL-STD-290*. The type and size of containers shall be as specified by the Procuring Activity (see 6.2).

5.2 Marking. The marking of all containers shall be in accordance with *MIL-STD-290* and any special marking required in the contract or purchase order (see 6.2). Manufacturers/suppliers of products under this specification shall provide a hazard warning label in accordance with *OSHA 29 CFR 1910.1200*. The appropriate warning shall convey the specific physical and health hazards including the target organ of the material. This label shall be affixed to each container.

“GREASE, AIRCRAFT AND INSTRUMENT, FUEL AND OXIDIZER RESISTANT”

MIL-G-27617E

6. NOTES

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

6.1 Intended use. The fuel resistant grease is intended for use in the lubrication of taper plug valves, gaskets, and bearings in fuel systems of aircraft and ground support equipment. It is also suitable for use in the presence of liquid oxygen as a lubricant for valves, threads, and bearings in aerospace vehicles and supporting equipment. This material may not be suitable for aluminum or magnesium dynamic bearing lubrication because of possible ignition hazards.

6.2 Acquisition data. Acquisition documents should specify the following:

- a Title, number, and date of this specification
- b Issue of *DoD ISS* to be cited in the solicitation and, if required, the specific issue of individual documents referenced (see 2.1.1)
- c Quantity desired
- d Applicable levels of packaging and packing (see 5.1)
- e Type and capacity of containers (see 5.1)

6.3 Qualification. With respect to products which require qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in *Qualified Products List (QPL) No. 27617* whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is WL/MI SE, BI DG 652, 2179 Twelfth Street, STE 1, Wright-Patterson AFB OH 45433-7718, and information pertaining to qualification of products may be obtained from that activity.

6.3.1 List of qualified products. Products considered acceptable under this specification are listed in *QPL-27617* and subsequent revisions thereto.

6.3.2 Qualification information. It is understood the material furnished under this specification to final approval shall be of the same composition and shall be equal to products upon which approval was originally granted. In the event the fluid furnished under contract is found to deviate from the composition of the approval product, or that the product fails to perform satisfactorily, approval of such products will be subjected to immediate withdrawal from the QPL.

6.4 Subject term (key word) listing

corrosion
 fuel resistant grease
 liquid oxygen resistant grease
 lubricant
 oxidation

MIL-G-27617E

6.5 International standardization agreements Certain provisions of this specification (1.1) are the subject of international standardization agreements *STANAG 1135* and *AIR STD 15/9*. 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.

6.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians

Army – ME
Navy – AS
Air Force – 11

Preparing activity

Air Force – 11
(Project 9150–1120)

Review activities

Army – AR, AV, EA, MI
Navy – SH
DLA – GS

User activities

Army – SM, MR
DLA – GS

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

- 1 The preparing activity must complete blocks 1, 2, 3, and 8 In block 1, both the document number and revision letter should be given
- 2 The submitter of this form must complete blocks 4, 5, 6, and 7
- 3 The preparing activity must provide a reply within 30 days from receipt of the form

NOTE This form may not be used to request copies of documents, not to request waivers, or clarification of requirements on current contracts Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements

I RECOMMEND A CHANGE:

1 DOCUMENT NUMBER
MIL-G-27617E

2 DOCUMENT DATE (YYMMDD)
940415

3 DOCUMENT TITLE

GREASE, AIRCRAFT AND INSTRUMENT, FUEL AND OXIDIZER RESISTANT

4 NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible Attach extra sheets as needed)*

5 REASON FOR RECOMMENDATION

6 SUBMITTER

a NAME *(Last, First, Middle Initial)*

b ORGANIZATION

c ADDRESS *(Include Zip Code)*

d TELEPHONE *(Include Area Code)*
(1) Commercial

7 DATE SUBMITTED
(YYMMDD)

(2) DSN
(If applicable)

8 PREPARING ACTIVITY

A NAME
ASC/ENOSD
AF CODE 11

B TELEPHONE *(Include Area Code)*
(1) Commercial (513) 255-6281 (2) DSN *(If applicable)* 785-6281

C ADDRESS *(Include Zip Code)*
2335 SEVENTH STREET, SUITE 6
WRIGHT-PATTERSON AFB OH 45433-7809

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