



Ministry of Defence

GENERATOR SET, DIESEL ENGINE DRIVEN, 2 kW, 230 V/110 V AC/28 V DC (Drumgrange Ltd)

6115-G-710-111 EQUIPMENT SUPPORT POLICY DIRECTIVE

Issue No. 003 Amendment No. 003 June 2018

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PREFACE

Sponsor:Operational Infrastructure (OI)Project No.:File Ref:DG Log (Land) ESS 13/8/18

Publication Authority: OI

INTRODUCTION

1 Service users should forward any comments on this publication using the procedures and templates provided on the Joint Asset Management and Engineering Solutions (JAMES) or Technical Documents On-Line (TDOL) portals. A Form 10 is also provided at the end of this publication; it may be copied and used for forwarding comments if JAMES or TDOL is not available.

2 AESPs are issued under UK MoD authority and where AESPs specify action is to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores, subject to the provisions of Para 3 below.

3 The subject matter of this publication may be affected by Defence Instructions and Notices (DIN), Standard Operating Procedures (SOP) or by local regulations. When any such Instruction, Order or Regulation contradicts any portion of this publication it is to be taken as the overriding authority.

RELATED AND ASSOCIATED PUBLICATIONS

Related publications

4 The Octad for the subject equipment consists of the publications shown below. All references are prefixed with the first eight digits of this publication. The availability of the publications can be checked on TDOL.



		Information Level				
	Category/Sub-category		1 User/ Operator	2 Unit Maintenance	3 Field Maintenance	4 Base Maintenance
4	0	Purpose and Planning Information	101	*	*	*
1	1	Equipment Support Policy Directive	111	*	*	*
	0	Operating Information	201	*	*	*
2	1	Aide-Mémoire	211	*	*	*
	2	Training Aids	*	*	*	*
3		Technical Description	201	302	*	*
4	1	Installation Instructions	*	*	*	*
4	2	Preparation for Special Environments	*	*	*	*
	1	Failure Diagnosis	201	522	*	*
E	2	Maintenance Instructions	201	522	523	*
5	3	Inspection Standards	*	522	*	*
	4	Calibration Procedures	*	*	*	*
6		Maintenance Schedule	601	*	*	*
	1	Illustrated Parts Catalogue	711	*	*	*
	2	Commercial Parts List	*	*	*	*
7	3	Complete Equipment Schedule, Production	*	*	*	*
	4	Complete Equipment Schedule, Service Edition (Simple Equipment)	741	*	*	*
	5	Complete Equipment Schedule, Service Edition (Complex Equipment)	*	*	*	*
	1	Modification Instructions	*	812	*	*
8	2	General Instructions, Special Technical Instructions and Servicing Instructions	*	*	*	*
	3	Service Engineered Modification Instructions (RAF only)	*	*	*	*

* Category/sub-category not published



Associated publications

5 The following associated publications should be read in conjunction with this category:

<u>Reference</u>

Title

AESP 6150-A-100-201	Earthing and Earthing Protection
SEI 14411	Safety Precautions for Electrical Equipment

WARNINGS AND CAUTIONS

WARNINGS

6 There are no WARNINGS applicable to this category.

CAUTIONS

7 There are no CAUTIONS applicable to this category.

ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

8 The following abbreviations are used in this category:

AB AC AESP AF	Army Book Alternating Current Army Equipment Support Publication Army Form
Amdt	Amendment
BFPO	British Forces Post Office
BLR Cat	Beyond Local Repair
CES	Complete Equipment Schedule
CLS	Contractor Logistic Support
DC	Direct Current
DEME(A)	Director Electrical and Mechanical Engineers (Army)
DE&S	Defence Equipment & Support
DGS	Distributed Generation Systems
DIN	Defence Instructions Notices
DLF FCB	Equipment Component Report
FFR	Equipment Failure Report
EMER	Electrical and Mechanical Engineering Regulations
Eqpt	Equipment
ESM	Equipment Support Manager
ESPD	Equipment Support Policy Directive
FRACAS	Failure Reporting Analysis and Corrective Action System
HZ	Herriz In Somian Data
JAMES	In-Service Date
ka	kilogramme
kW	kiloWatt
LE	Land Equipment
LEUMS	Land Equipment User and Maintenance Standards
LFG	Lightweight Field Generator
	Line Replaceable Unit
mA	millampere



MOD	Ministure Circuit Breaker
	Ministry of Defense
	Ministry of Defence
MOIS	
NATO	North Atlantic Treaty Organisation
No.	Number
OI	Operational Infrastructure
OSP	Operational Support Programme
Pam	Pamphlet
Para	Paragraph
PDS	Post Design Services
PT	Project Team
RAF	Royal Air Force
REME	Royal Electrical and Mechanical Engineers
RE	Royal Engineers
RLC	Royal Logistic Corps
RM	Royal Marines
RS	Roval Signals
SEI	Service Engineering Instruction
SME	Subject Matter Expert
SOP	Standard Operating Procedures
TDOL	Technical Documents On-Line
Tel	Telephone
UET	Unit Equipment Table
UH	Unit Holding
UK	United Kingdom
UOR	Urgent Operational Requirement
V	Volt
Vol	Volume
VOI	VOIUITIE

SYMBOLS

9 The following symbols are used in this category:

%	percent
±	plus or minus





EQUIPMENT SUPPORT POLICY DIRECTIVE (ESPD)

INTRODUCTION

1 This Equipment Support Policy Directive (ESPD) is concerned with:

1.1 Equipment Designation: Generator Set, Diesel Engine Driven 2kW, 230V/110V AC, 28V DC, (Drumgrange Ltd).

- 2 NATO Stock Numbers and Asset Code
 - 2.1 Standard Variant Bare Set 6115-99-908-6784
 - 2.2 Asset Code JR8817 3500
 - 2.3 CES 6115-99-733-9114
- 3 Quantity
 - 3.1 Standard Variant 3404

4 The policy set out in this ESPD is based upon the planned deployment and role of the equipment, its utilisation and reliability. The policy may be amended in light of experience or with changes in deployment or utilisation.

TECHNICAL DESCRIPTION

5 <u>Technical Description</u> The Lightweight Field Generator (LFG) Set is supplied by Drumgrange Ltd under the terms of contract BFC C1/59 designed to comply with specification in SRD 1038 Issue 1.1. The generator consists of a lightweight air-cooled engine mated to an advanced brushless permanent magnet variable speed alternator. The generator produces 2 kW of power at either 230 Volts or 110 Volts AC allowing simultaneous 28 V DC output, depending on the mode selected. All outputs feature MCB overcurrent protection and the AC outputs feature 30 mA earth leakage protection. The following details relate to the technical description of the equipment:

5.1 <u>Engine</u>. Hatz 1B20 Series, four stroke, single cylinder, direct injection, normally aspirated engine.

CAUTION

EQUIPMENT DAMAGE. There are two types of Hatz Diesel engines in service; Engine type 1B20-S-204C and Engine type 1B20-S-204D. The Engine type is identified by a data plate which is glued to the air filter housing. It is important to note the correct Engine type when undertaking any maintenance.

5.2 <u>Starting System</u>. Two methods are integral with the system. The first is a recoil cord, pull start, and the second is a 24 V electric starter motor, powered from a remote power source via the interconnecting socket and interconnecting lead.

5.3 <u>Cooling System</u>. Air cooled.

5.4 <u>Fuel System</u>. External Jerry can feed to integral auxiliary 3 litre header tank. The generator is capable of being fuelled by both Dieso (F54) fuel and AVTUR (F34).



CAUTION

EQUIPMENT DAMAGE. The fuel flow and return hoses or earth cables provided are not to be lengthened or shortened under any circumstances without approval from the design authority.

- 5.5 <u>System Batteries</u>. None fitted.
- 5.6 <u>Weight</u>. 76 kg without fuel.
- 5.7 <u>Dimensions</u>. 600 mm x 500 mm x 540 mm.

5.8 <u>Alternator</u>. The alternator is a High Frequency lightweight Permanent Magnet Generator, powering an electronic control unit incorporating an AC Inverter and DC Regulator.

5.9 Inverter. Can provide either 230 V or 110 V 50 Hz single-phase AC outputs.

5.10 <u>DC Regulator</u>. Provides 28 V DC output.

5.11 <u>Output</u>. The generator will provide either 110 V AC or 230 V AC output with simultaneous 28 V DC output. The normal power available is 2 kW continuously; however the generator is capable of sustaining an overload up to 2.2 kW for a maximum duration of one hour in every 10 hours operation.

5.12 <u>Instrumentation</u>. Instrumentation provided includes AC Voltage, DC Voltage, Total Percentage Load and Hours Run meter.

- 5.13 <u>Regulation</u>.
 - 5.13.1 110 V AC ± 5%
 - 5.13.2 230 V AC ± 5%
 - 5.13.3 28 V DC ± 4%
- 5.14 <u>Ancillaries</u>. Each equipment is issued the following ancillaries.

CAUTION

EQUIPMENT DAMAGE. The fuel flow and return hoses provided are not to be lengthened or shortened under any circumstances without approval from the design authority.

5.14.1	Exhaust Extension.	4720-99-611-7748	Carried loose with Generator
5.14.2	Feeler Gauge	5210-99-796-7540	Carried inside Air Filter cover
5.14.3	Bag Accessory	5140-99-939-0976	Attached to Generator frame
5.14.4	Earth Spike	5975-99-901-0148	Carried in Frame Transit Brackets
5.14.5	Cable Assembly, Electrical	6150-99-811-2625	Carried in Accessory bag



5.14.6	Aide Memoire	AESP 6115-G-710-211	Carried in Accessory bag
5.14.7	Assembly Fuel Adapter	4720-99-693-0530	Carried in Accessory bag

MANAGEMENT INFORMATION

6 The management responsibility/information relating to this equipment is as follows:

6.1	Capability Manager	-	Capability Directorate Combat Support
6.2	Requirements Manager	-	OI
6.3	Equipment Support Manager	-	Rolls-Royce Distributed Generation Systems (DGS)
6.4	Engineering Support	-	Rolls-Royce DGS
6.5	Supply Manager	-	Rolls-Royce DGS
6.6	Main Contractor	-	Rolls-Royce DGS
6.7	Supplier	-	Rolls-Royce DGS
6.8	Contract Number	-	BFI C1/59

7 <u>Planned Role</u>. The LFG will provide general 2 kW AC and DC power to support tactical and mobile operations world-wide. LFG is required to provide a source of electrical power for general field equipment, including; mobile Command, Control & Communications Information Systems, Field Lighting kits, battery charging and electrical power tools not served by trailer mounted generators. It is to operate in the LAND environment across the spectrum of conflict, in diverse topographical and climatic conditions.

8 <u>Planned Life and Utilisation</u>. The equipment will remain in service until reviewed as part of the Field Power Project.

- 9 In Service Date (ISD). Dec 04.
- 10 Logistic Support Date. Nov 04.

11 <u>Utilisation and Availability</u>. The anticipated availability of serviceable equipment is in accordance with Defence Logistics Framework (DLF) guidelines.

MAINTENANCE POLICY

12 <u>Maintenance Policy</u>. The maintenance policy follows normal Generator servicing policy and in-service oils and lubricants are to be used.

- 13 <u>Repair Policy</u>. Repair Procedures are to be in accordance with AESP 0200-A-090-013.
 - 13.1 Level 1/2 Repairs.

13.1.1 Due to the ease of maintenance and simplicity in design of the generator, Level One Active Corrective Maintenance can be conducted by the operator without the need for tools and within 15 mins. Therefore, the Complete Equipment Schedule (CES) provided with the generator is minimal and contains no hand tools.



13.1.2 Level 2 maintenance is to be carried out by competent REME and R Signals maintainers and is restricted to adjustment or minor repair, failure diagnosis, removal and replacement of LRU's and the removal and replacement of external mechanical or electrical fittings. Level 2 MACMT repair tasks are restricted to those, which can be carried out in the field in 1 hour or less, by REME Tradesmen or Regimental Workshops.

13.2 Level 3 Repairs.

13.2.1 Field Repairs are to be restricted to tasks, which can be completed by one tradesman in 10 hours or less, carried out by Regimental Workshops or other designated REME Battalion Workshop.

13.2.2 The repairs are to be carried out by REME personnel in the supporting second line workshop, and is to consist of the repair, replacement or adjustment of any part of the equipment not requiring complete stripping of a major assembly.

13.3 Level 4 Repair.

13.3.1 These equipment's are classified Category 'C' for Base Repair: i.e. Base Repair to Major Assemblies, mid life improvement or refurbishment will be done by Contract Repair arranged by the ESM.

13.3.2 Contract Repair will only be undertaken when authorised by the Senior REME Officer of the Theatre or Command.

EXAMINATION AND INSPECTION

14 Examination and Inspection of the equipment is to be in accordance with AESP 0200-A-090-013 DEME(A) Engineering Standards.

14.1 <u>REME Inspection</u>. This equipment will subject to an annual REME inspection in accordance with AESP 0200-A-093-013 Land Equipment User and Maintenance Standards (LEUMS) and AESP 0200-A-100-013, Equipment Care Inspection and Mandatory Equipment Inspection, dated Feb 03. This inspection is to be recorded on AFG3650.

14.2 All queries on engineering matters should be directed to the Operational Infrastructure (OI) team.

SUPPLY

15 Initial issue of equipment and CES if applicable, will be authorised by Equipment Sponsors. This equipment is under the management of a Contractor Logistic Support (CLS) contract. Each unit will have a total entitlement, their Unit Equipment Table (UET) and a Unit Holding (UH). It is the UH which the unit will hold permanently, but with the ability to request up to their UET on a MOD Form 2268 for any exercise or operation on a temporary basis.

15.1 <u>Initial demand</u>. Initial demands or any requests for a change to the UET is by completion of AF G8088 (Initial demand/EE demand) in accordance with the Defence Logistics Framework (DLF).

15.2 <u>Replacement</u>. Replacement issues of equipment classified Beyond Local Repair (BLR) will be dealt with by the CLS contractor, through the Joint Supply Chain on receipt of a justified demand/email via the ESM at Rolls-Royce DGS in accordance with the DLF.

15.3 <u>Loan/temporary issue</u>. Units can request loan/temporary issue equipment by completion of MOD Form 2268 (General Purpose Power Equipment Request Form) via the CLS arrangement on a Whole Fleet Management basis in accordance with the DLF.



15.4 <u>Spares</u>. Spares have been scaled and codified and are to be obtained through normal channels, i.e. via the CLS arrangement and delivered directly into the Joint Supply Chain in accordance with the DLF.

15.5 <u>Back loading</u>. Units with a requirement to back load this equipment should do so in accordance with the DLF, by completion of AF G8621 (Request for Disposal/Return Instructions) or by completion of AF G8883 (Consignment Voucher for Fit and Unfit Repairable items).

15.6 <u>CLS supply queries</u>. For any CLS supply queries, Rolls-Royce DGS can be contacted via the Helpdesk on 01606 597442 or via DGShelpdesk@rolls-royce.com.

PUBLICATIONS

16 The supporting publications for this equipment are:

16.1	Purpose and Planning Information	6115-G-710-101
16.2	Equipment Support Policy Directive	6115-G-710-111
16.3	Operating Information	6115-G-710-201
16.4	Special-to-Arms Aides Memoire	6115-G-701-211
16.5	Technical Description	6115-G-710-302
16.6	Maintenance Instructions inc. Failure Diagnosis (Level 2)	6115-G-710-522
16.7	Maintenance Instructions (Level 3)	6115-G-710-523
16.8	Maintenance Schedule	6115-G-710-601
16.9	Illustrated Parts Catalogue	6115-G-710-711
16.10	Complete Equipment Schedule, Service Edition	6115-G-710-741
16.11	Modification Instructions	6115-G-710-812

TRAINING

17 Operator and Maintainer training will be carried out in 2 stages. Stage 1, Conversion (Surge) Training will be co-ordinated through LAND and will be conducted by the contractor who will train unit instructors. These will then cascade the training down to unit personnel. Stage 2 Steady State Training will be under direction of ATRA.

COMPETENT PERSONS

18 Competent persons are detailed in Table 1 - Power Equipment Competency Chart.

NOTE

The LFG 2 kW generator set is not included in this chart as it is considered to be part of the 'All Arms' equipment covered by the All Arms Training.

TABLE 1 POWER EQUIPMENT COMPETENCY CHART

	FE	PS	Т	EG	FEI	PDS	PN	IDS	LA	PDS
Level of Training	Installation (Lay-down)	Complete a Power Plan, Inspect, Test Commission, Energise								
Royal Engineer Electrician Class 1	Yes	Yes								
Royal Engineer Electrician Class 2	Yes	No								
Royal Signals Electrician Class 1	Yes	Yes								
Royal Signals Electrician Class 2	Yes	No								
REME Electrician Class 1	Yes	No	Yes	No	Yes	No	Yes	No	No	No
REME Electrician Class 2	Yes	No	Yes	No	Yes	No	Yes	No	No	No
RAF Gen Tech E	Yes	Yes								
Royal Marine TECH	Yes	No	Yes	No	Yes	No	Yes	No	No	No

Installation:	Prepare the generator, lay out and connect the distribution equipment in accordance with the power plan.	Commission:
Inspect:	Check to ensure that all connections are secure and	Energise:

Certification that the power equipment has been installed, tested and commissioned in line with regulations.

Check to ensure that all connections are secure and Inspect: appropriate earth connections made.

Apply power across the distribution network.

Test that power flows from the source to the final distribution points. Test breakers and RCD switches. Test:





RELIABILITY

19 The equipment is a Modified Off The Shelf (MOTS) commercial product and a reliability case has been conducted by OI and accepted by the OSP.

19.1 All unexpected, safety related, serious or catastrophic failures are to be reported using one of the following methods and preferably in the order shown dependent on availability:

19.1.1 Joint Asset and Management Solutions (JAMES) Equipment Component Report (ECR).

- 19.1.2 Electronic Equipment Failure Reports (EFRs).
- 19.1.3 Paper format EFR to FRACAS BFPO 794.

WARRANTY

20 In accordance with normal MoD contracting procedures, the 2kW Drumgrange Generator is not covered by a specific warranty. The equipment is however protected by the "Sales of Goods Act", under General Law and therefore is designated "Fit for Purpose". Any failure which would normally be considered a Warranty failure should be reported on EFR and advice sought from the ESM on ABW Mil 9679 31341 or Civil +44(0)30 679 31341.

CONFIGURATION MANAGEMENT

21 Modification of the equipment will be authorised by the OI and instructions notified in AESP Category 8.

22 Post Design Services (PDS). PDS will be contracted for as and when required and authorised by OI.

STORAGE

23 The Generator is designed for use in climatic extremes as described. However, the equipment should not be exposed to the elements without further protection for prolonged periods of time when not in use. It is therefore recommended that the generator be stored under cover and not directly exposed to the elements. If for operational reasons, the LFG must be stored outside for prolonged periods, it is recommended that the generator is wrapped in heavy duty plastic. Specific Out of Use Maintenance Instructions are detailed in Cat 601 and include engine inhibiting procedures for out of use storage.

DISPOSAL

24 Disposal of this equipment shall be authorised by the OI.

REPAIR LIMITS

25 Repair limits for the use by the Army Workshops will be published annually in AESP 0200-A-062-013. These limits will be based on a planned life of 12 years but may be revised to reflect in-service experience, so that the generators can be considered for casting at the end of their economic life, this may exceed their original planned life.

AIR DROP

26 This equipment is suitable for normal parachute Air Drop. JATEU 135/03/AD refers.



ARMY EQUIPMENT AND SUPPORT PUBLICATION (AESP) AND ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS (EMER) - FORM 10

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AESP Form 10 (Issue 6.2 dated July 13)

- * Mandatory Fields for Originator
- * Mandatory Fields for Sponsor.

ARMY EQUIPMENT AND SUPPORT PUBLICATION (AESP) AND ELECTRICAL AND MECHANICAL ENGINEERING REGULATIONS (EMER) - FORM 10

Form 10 Guidance

Form 10 can be found within the AESP or, as a template, from the JAMES Portal (Hot Topic – Forms) & TDOL (FORM10).

Originator responsibility is to enter the following details marked *:

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- Is this Safety Related? select Yes or No as appropriate.
- Originator Details:
 - Full address Inc Post Code or BFPO NO.
 - Originator email address
 - Senders Reference that must be unique.
- AESP Details shall enter the following details:
 - The Full Title of AESP/EMER should not include the AESP/EMER Number
 - Enter details in all other mandatory fields marked *.
 - Additional information relating to the Comments (AESP copies, additional text details or photographs) should be attached to the Email at the same time.
- Originator makes up the Form 10 & Sends to Form 10 cell via
 - Post to Form 10 Cell, FRACAS, BFPO 794 address.
 - Email to
 - Any AESP that holds a Security marking higher than 'Restricted' should be securely circulated.

FORM 10 CELL responsibilities:

The Form 10 Cell enters:

- Date Received
- Form 10 Reference
- Date sent to Sponsor
 - Register all Form 10 details in the MOSS Form 10 Tracker.

Sponsor Responsibility

The Sponsor will:

- Enter their name, email address & phone contact details.
- Enter Date Received
- Enter Details in the non-mandatory field as & when required.
- Acknowledge receipt of Form 10, within 5 working days, by email to Form 10 Cell.
- Assess the contents of comments and details received.
- Mark the relevant Action box and fill out the Remarks field.
- Enter date when the Form 10 is returned to Form 10 Cell.
- Email copy of completed Form 10, within 6 weeks, to the Form 10 Cell and Originator.

Form 10 Cell on receipt will:

- Record final stage of the Form 10 into the MOSS Form 10 Tracker.
- Close off the Form 10 and archive.

AESP Form 10 (Issue 6.2 dated July 13)

- * Mandatory Fields for Originator
- * Mandatory Fields for Sponsor.