

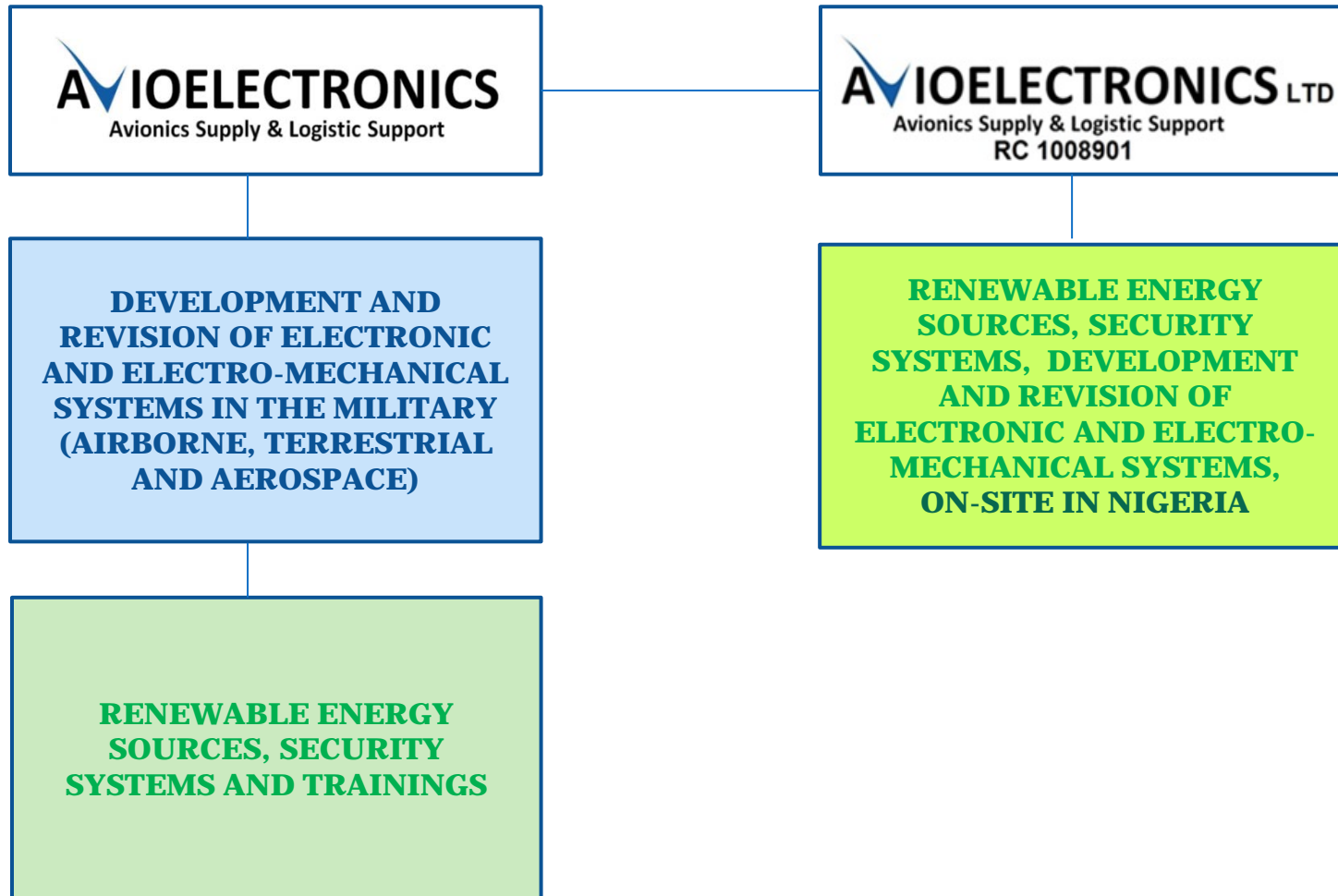


Companies' Presentation



UNI EN ISO 9001:2008
UNI EN 9110:2012 (AS 9110B)

OUR ORGANIZATION





AVIONIC SERVICES

Structures and activities



BACKGROUND

AVIOELECTRONICS, a new branch of Ce.s.i.s. S.r.l. (since 1982) and Aviocesis S.r.l. (since 2003), was established in 2003 and carries out its own activity in electronics and aerospace field.



AVIOELECTRONICS has reached a prominent position with successful results in development and revision of **electronic and electro-mechanical systems**, in addition to the training and the organization of an efficient **logistic support service**, specially focused to Air Forces needs, that is offered both to national and international Customers.

QUALITY AND CERTIFICATIONS



A specific attention has been dedicated to the Quality of the activities performed by the Company. AVIOELECTRONICS operates in compliance with the quality Standards **ISO 9001:2008 and EN 9110:2012 (AS 9110B) AEROSPACE Series requirements**, as attested by the following certifications:

UNI EN/AS 9110:2012 SGQ 230-N

UNI EN ISO 9001:2008 SGQ 230-A

AVIOELECTRONICS is adapting to the NATO AQAP-2120 certification and, in order to be able to operate also in civil aviation, it's also adapting to the EASA Part 145 of the EU Commission Regulation 2042/2003.

QUALITY AND CERTIFICATIONS



AVIOCESIS, for being able to supply services to Government U.S.A. and N.A.T.O. Bases in Italy and for being able to stipulate contracts with Ministry of Defence of Italy and of N.A.T.O. Countries, obtained the following certification:

- **N.A.T.O. Manufacturer Code: AEA145**
- Enrolment in A.F.A. **N.A.T.O./N.A.M.S.A.** Register
- Enrolment in the National Register of Defence Minister **U.R.N.I. n°00661**
- **License in accordance with Ex art. 28 T.U.L.P.S.** for the production, sale and possession of electronic equipment for military use issued by the Prefecture of Rieti Prot. 0009961 of 03.06.2015
- **Export license for electronic equipment** (Ministry of Foreign Affairs – U.A.M.A. Prot. 35928 of 13/12/2012) **and for test benches classified** (Prot. 32101 of 09/11/2012)

QUALITY AND CERTIFICATIONS



CERTIFICATO DI APPROVAZIONE CERTIFICATE OF APPROVAL

Si dichiara che il sistema di gestione per la Qualità dell'Organizzazione:
We certify that the Quality Management System of the Organization:

Reg. No: 00230 - N

Indirizzo/Address:

Via TARAGNANO snc
02047 POGGIO MIRTETO RI Italia

Struttura di certificazione/ Certification Structure: Single Site

AVIOELECTRONICS
s.r.l.

È stato valutato in accordo ai requisiti della norma EN 9104-001:2013 e del Regolamento Tecnico Accredia RT 18
Has been audited in accordance with EN 9104-001:2013 standard and ACCREDIA Technical Regulation RT-18 requirements.
Ed è conforme ai requisiti delle seguenti Norme per la Gestione dei Sistemi Qualità
And it is in accordance to the following Quality Management System Standards

AS9110B (technically equivalent to prEN 9110:2012 P4)
UNI EN ISO 9001:2008 / ISO 9001:2008

Scopo/Scope:

Manutenzione e riparazione di apparecchiature avioniche nel settore aeronautico. Esclusa la progettazione.

Maintenance and repair of avionic equipments. Excluding design.

EA: 21 ,19

Il mantenimento della certificazione è soggetto a sorveglianza annuale e subordinato al rispetto dei requisiti essenziali UNAVIAcert.
Maintaining the certification is subject to annual survey and dependent upon the observance of UNAVIAcert basic requirements.
Riferirsi al Manuale della Qualità per i dettagli delle eventuali esclusioni ai requisiti delle norme sopra indicate.
Refer to the Quality Manual for details on the any exclusions of the requirements of the above mentioned standards.

Rilascio certificato/Certificate issuance: 2010-01-14

Ultima modifica/Last modification: 2014-12-23

Prossimo rinnovo/Following renewal: 2016-01-13

Direttore Generale
General Manager
Giampiero Belcredi



Partner for progress

UNAVIAcert S.r.l. - Headquarters Italy - Via dei Murili 18 - 20175 Roma - Tel. +39 06 4025 5406 - Fax +39 06 400 0250 - www.unaviacert.it



CERTIFICATO DEL SISTEMA DI GESTIONE PER LA QUALITÀ QUALITY MANAGEMENT SYSTEM CERTIFICATE

Si dichiara che il sistema di gestione per la Qualità dell'Organizzazione:
We certify that the Quality Management System of the Organization:

Reg. No: 00230 - A

Indirizzo/Address:

Via TARAGNANO snc
02047 POGGIO MIRTETO RI Italia

AVIOELECTRONICS
S.r.l.

È conforme alla norma in compliance with the standard:

UNI EN ISO 9001:2008
ISO 9001:2008

Per i seguenti prodotti/servizi/For the following products-services:

Progettazione e realizzazione di hardware e software di apparati elettronici.
Design and manufacturing of electronic equipments.

EA: 21 ,19

Il mantenimento della certificazione è soggetto a sorveglianza annuale e subordinato al rispetto dei requisiti essenziali UNAVIAcert.
Maintenance of the certification is subject to annual survey and dependent upon the observance of UNAVIAcert basic requirements.

Rilascio certificato/Certificate issuance: 2010-01-14

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QUALITY AND CERTIFICATIONS



MODELLO UNICO PER LE ISTANZE DI IMPORTAZIONE		
1) IMPORTAZIONE (X) DEFINITIVA () 2) PROROGA ALL'IMPORTAZIONE () TEMPORANEA () DEFINITIVA PER REIMPORT ()		
3) TIPOLOGIA DELLA ATTIVITA'	4) DESCRIZIONE ATTIVITA' DA SVOLGERE	5) COSTO ATTIVITA' IMPORTO: \$ 270.000,00 (DUECENTOSETTANTAMILADOLLARI/00)
ACQUISTO () REPARAZIONE (X) REVISIONE () MANUTENZIONE () RICONFIGURAZIONE () PROVE E COLLAUDO (X) STUDIO () INSTALLAZIONE () ALTRO ()	come da allegato A	SI () A consuntivo () A titolo oneroso (X) NO () Conto Garanzia () A Titolo Gratuito () SENZA IMPEGNO DI REGOLAMENTO ()
6) VALORE E DESCRIZIONE DEL MATERIALE: Per la descrizione del materiale vedere ALL. A. Valore complessivo \$ \$10.000,00 (DIECIMILADOLLARI/00) perché trattasi di materiale usato e non funzionante. 7) UNITA' DI MISURA E QUANTITA': Pz=2 EVIDENZIARE SE IL MATERIALE VIENE MOVIMENTATO ANCHE IN PARTI STACCATTE E/O FRAZIONATE. VALORE: (AI SOLI FINI DOGANALI): \$10.000,00 (DIECIMILADOLLARI/00) SI (X) NO () AMMONTARE COMPLESSIVO DEL CONTRATTO: \$ 270.000,00 (REVISIONATO IN DATA 15.10.2012) VOCE DOGANALE: 8803 3000 CATEGORIA MATERIALI DI ARMAMENTO: 80 00 00 CLASSIFICA MATERIALE DI ARMAMENTO (Specificare il grado di riservatezza-segretezza) NC 8) COMPENSO DI INTERMEDIAZIONE: NO Importo:		
9) IMPORTATORE: DITTA INDIVIDUALE O SOCIETA': AVIOCEIS SRL VIA/PIAZZA: VIA TARAGNANO SNC CITTA': POGGIO MIRTETO (RIETI) C.A.P. 02047 N. ISCRIZIONE U.R.N.I.: 00543 N. ISCRIZIONE C.C.I.A.A.: 1316158 PARTITA IVA O C.F.: 00952980571 ABILITAZIONE LIVELLO SEGRETEZZA: NC		
10) DOGANA INTERESSATA: ROMA 1 11) FORNITORE (nel caso di importazioni definitive) 12) MITTENTE/DESTINATARIO (nel caso di importazioni temporanee e successive riesport): AETSL - NIGERIA PLOT 1762 MURTALA MUHAMMED - AIRPORT DRIVE - KEJA-LAGOS (NIGERIA) 13) UTILIZZATORE (solo per le importazioni definitive): 14) UTILIZZATORE FINALE: AETSL - NIGERIA PLOT 1762 MURTALA MUHAMMED - AIRPORT DRIVE - KEJA-LAGOS (NIGERIA) 15) TRAMITE COMMERCIALE: (il tramite commerciale risulta essere quel soggetto che emette/fornisce le fatture relative al materiale di armamento non gestendone la relativa movimentazione) 16) TRAMITE INDUSTRIALE: (il tramite industriale risulta essere quel soggetto operante nel paese di transito che gestisce la movimentazione del materiale di armamento) 17) PAESE DI PROVENIENZA E CODICE PAESE: NIGERIA - LAGOS NG 288 18) PROGRAMMA INTERGOVERNATIVO:		

MINISTERO AFFARI ESTERI
U.A.M.A.
POSTA IN ARRIVO
-9 NOV 2012
PROT. N. 32101 DIV. I

SIAC

<https://siac3.difesa.it/siac/parametri/anagrafici/Italiani/NcAgeAnaTab...>

SIAC		
Stato commessa: Tommaso INNOCENTI M0001 - SEGREDEFESA Segretario Generale della Difesa DNA V Reparto 3° Ufficio Area Privata		
SAC PARAMETRI: GMS RTT MINIMALI ANAGRAFICHE CONTATTI TRANSAZIONI NDR GMS NAT VITE GSA DFR Stampa Esportazione		
Successo di creazione Creazione NCAGE ANAG		
NCAGE Italiani Dettaglio		
Stato	A - CODICE ATTIVO	Codice Aggregativo
CRA, Indirizzo Rete	POGGIO MIRTETO	Codice paese NATO secondo STANAG 693
Dati telefonici Canale del Comandante		Numero di fax FMS (0039)02047
Forma Giuridica	2 - Srl Società Responsabilità Limitata	Nome NCAGE
NCAGE	ANAG	NC
Partita IVA	105271028	CAP, Indirizzo Rete
Sediliatore del codice NCAGE No. 1		Via e numero civico, Indirizzo Rete (Prima Pagina)
Via e numero civico, Indirizzo Rete (Seconda Pagina)		Stato, Provincia, Regione o Provincia
Telefono	0204702047	Tipo Organizzazione
Sito web Indirizzo	www.avioelectronics.it	Canale postale
Indirizzo e-mail	mailto:pubb@avioelectronics.it	E-mail PEC (posta elettronica certificata)
Specifiche Normative Standard		Data di inserimento
Data di Modifica	12/02/2015 07:50:28	

SEGREDEFESA V Reparto Innovazione Tecnologia 3° Ufficio Certificazione, Accreditazione di Qualità, Normativa Tecnica e Standardizzazione SAC

QUALITY AND CERTIFICATIONS



Prot. Firm.
Data del 03/06/2016
no. 0209951
R.G. 48.13

Il Prefetto della Provincia di Rieti
Area 1 - Ordine e sicurezza pubblica; protezione civile, difesa civile e coordinamento del soccorso pubblico

VISTA l'istanza già pervenuta in data 17.03.2015 con la quale il Sig. Giuliani Carlo, nato il 2.8.1949 residente in Montoriole (RM) Via Bernina, 6, amministratore unico della "AVIOELECTRONICS srl", ha chiesto il cambio di denominazione sociale da "AVIOCESIS srl" a "AVIOELECTRONICS srl" nonché il rinnovo della licenza ex art. 28 T.U.L.P.S. per la fabbricazione di oggetti destinati all'armamento ed all'equipaggiamento delle Forze armate nazionali o straniere di seguito indicati presso il proprio stabilimento sito in Poggio Mirteto (RI) in Via Taragnano s.n.c.

VISTO il proprio provvedimento n. 6151 datato 07.04.2015 con il quale è stato autorizzato il richiesto cambio di denominazione sociale;

VISTO il certificato di visita ordinaria della Camera di Commercio di Roma datato 16.03.2015;

VISTO il DURC (documento unico di regolarità contributiva) datato 14-09-2015;

VISTI l'art. 28 T.U.L.P.S. approvato con R.D. 18.6.1931 n. 773, gli artt. 34, 35 e 37 del relativo Regolamento di Esecuzione nonché la legge 18.4.1975 n. 110 contenente norme integrative della disciplina vigente per il controllo delle armi, delle munizioni e degli esplosivi;

VISTA la legge 9 luglio 1990 n. 185 riguardante "Nuove norme sul controllo dell'importazione, importazione e transito dei materiali di armamento", il Decreto del Ministero della Difesa 23 settembre 1991 con il quale è stata approvata l'elenco dei materiali d'armamento da comprendere nelle categorie previste dal secondo comma dell'art. 2 della predetta legge, successivamente modificato da ultimo, il D.M. 11 giugno 2003;

ACCERTATO il possesso in capo al richiedente dei requisiti soggettivi giusta nota Cat. 25/2015/P.A.S.I. datata 14.04.2015 della Questura di Rieti;

RITENUTO di poter aderire all'istanza.

RINNOVA

il Sig. Giuliani Carlo, soprannominato, in nome e per conto della "AVIOELECTRONICS Srl" del quale è Amministratore Unico, la licenza ex art. 28 T.U.L.P.S. per la fabbricazione presso il proprio stabilimento sito in Poggio Mirteto (RI) in Via Taragnano, s.n.c. di oggetti destinati all'armamento ed all'equipaggiamento delle forze armate nazionali o straniere di seguito elencati per qualità e quantità massime annuali e previsti nel succitato Decreto del Ministero della Difesa 13 giugno 2003 concernente l'approvazione del nuovo elenco dei materiali d'armamento da comprendere nelle categorie previste dall'articolo 2, comma 2, della legge 9 luglio 1990, n. 185:

Il Prefetto della Provincia di Rieti
Area 1 - Ordine e sicurezza pubblica; protezione civile, difesa civile e coordinamento del soccorso pubblico

La presente autorizzazione è subordinata all'osservanza di tutte le prescrizioni previste dalle vigenti disposizioni di legge in materia ed in particolare:

- Il Sig. Giuliani dovrà curare la regolare tenuta del registro di carico e scarico del materiale dichiarato giusta quanto stabilito dall'art. 16 del Regolamento T.U.L.P.S., lo stesso dovrà essere esibito ad ogni richiesta degli Uffici o agenti di pubblica sicurezza ai sensi dell'art. 55 T.U.L.P.S.;
- Il Sig. Giuliani dovrà accertarsi della costante efficienza dei mezzi di difesa passiva previsti a salvaguardia dell'intero stabilimento denunciando immediatamente agli Organi di Polizia eventuali sostituzioni o ammantamenti;
- Ogni eventuale variazione relativa alla tipologia del materiale che si intende detenere dovrà essere tempestivamente comunicata a questo Prefettura.

La presente autorizzazione ha validità biennale così come indicato nella circolare del Ministero dell'Interno n. 557/PAS/SAS/10906/2799 del 24 giugno 2011 in relazione al D. Leg.vo 26/10/2010 n. 204. La domanda di rinnovo dovrà essere presentata almeno due mesi prima della scadenza fissata alla data del 21.05.2017.

Ammantamento dovrà essere presentato il DURC.

La stessa potrà essere sospesa o revocata ai sensi dell'art. 10 del T.U.L.P.S. in caso di abuso o inosservanza delle prescrizioni in essa contenute ex per motivi di ordine e sicurezza pubblica.

Rieti, 29/05/15

Il Vice Prefetto Vicinanza a.v.
Grisso

u

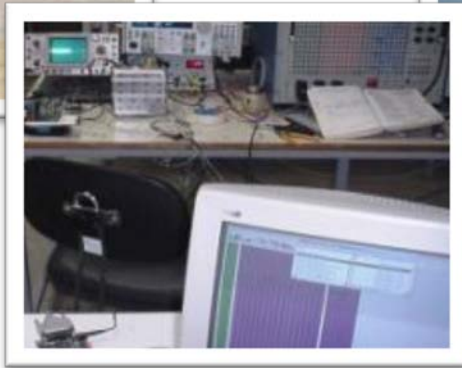
ACTIVITIES

In compliance with the high quality standard mentioned, the activities carried out by AVIOELECTRONICS are:

- **DESIGN/RETROFIT/REVERSE ENGINEERING/UPGRADE OF ELECTRONIC SYSTEMS FOR TERRESTRIAL, MARINE AND AVIATION USE**
- **DESIGN AND MANUFACTURING OF TEST BENCHES**
- **REPAIR, OVERHAUL AND MAINTENANCE OF AVIONIC EQUIPMENTS**
- **SERVICE OF LOGISTIC SUPPORT AND SERVICE PROVIDING**

MAIN CUSTOMERS

- ✓ **A.M.I.**
- ✓ **M.B.D.A.**
- ✓ **N.A.M.S.A.**
- ✓ **SELEX-ES S.p.A.**
- ✓ **N.A.F. (Nigerian Air Force)**
- ✓ **ALENIA AERMACCHI**
- ✓ **ZETRO SERVICES**
(Royal Malaysian Air Force)
- ✓ **AIRBORNE SYSTEMS FZE**
- ✓ **A.E.T.S.L.**
- ✓ **N.A.T.O.**
- ✓ **E.I.**
- ✓ **M.M.I.**



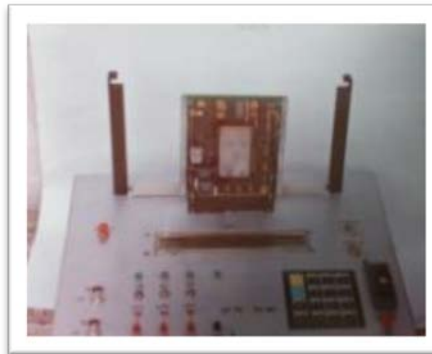
DESIGN AND DEVELOPMENT

ACTIVITY 1/2

AVIOELECTRONICS participated in several military programs with the task to **design**, **develop** and **manufacture** advanced electronic equipments.



**C.A.M.U. EFA Program
Databus Remote
Terminal (1989)**



**F.O.F.E. EFA
Program
Fiber Optic Front
End (1995)**



**Main Power for
military use (2001)**

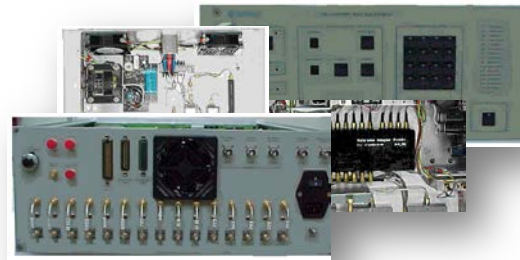
DESIGN AND DEVELOPMENT

ACTIVITY 2/2

AVIOELECTRONICS participated also in several military programs with the task to **design** and later to **upgrade** the A.T.E. (Automatic Test Equipment), the A.G.E. (Automatic Ground Equipment), and S.T.T.E. (Special to Type Test Equipment); besides to their relevant **maintenance**, **calibration** and system **assistance** activities.



SIU-SMC Program
EH 101 SIU-SMC (2003)



STTE ENR-GA and ENR-TX
Test System for the GRIFO
Radar System (2004)



SAMP-T Program
S.C.A.D. Unit Pitcher
(2005)

ITALIAN ARMY MAINTENANCE ACTIVITY

Maintenance, repair and overhaul of Anti Tank System MILAN (MEST 2/3)



MAINTENANCE ACTIVITY 1/6

Maintenance, repair and overhaul of units and sub-assemblies of the following aircraft and Manufacturer:

- ✓ C-130A/C/H
- ✓ HH412/AB412/512
- ✓ G-222/C27A-J
- ✓ ATR-42/72
- ✓ ALPHAJET
- ✓ SH-3D
- ✓ AMX
- ✓ TORNADO
- ✓ A109LUH
- ✓ AB 212
- ✓ MB-339



- ✓ ROCKWELL
- COLLINS
- ✓ BENDIX KING
- ✓ MARCONI
- ✓ AERITALIA
- ✓ SPERRY
- ✓ HAMILTON

MAINTENANCE ACTIVITY 2/6

The following are some components of our capability:



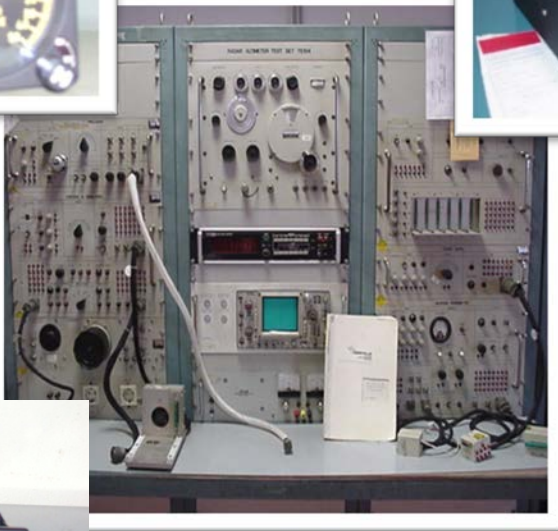
**ASN 75 SYSTEM
TEST SET**



**MARCONI ECATE ADF
ARG 80 SYSTEM TEST SET**

MAINTENANCE ACTIVITY 3/6

The following are some components of our capability:



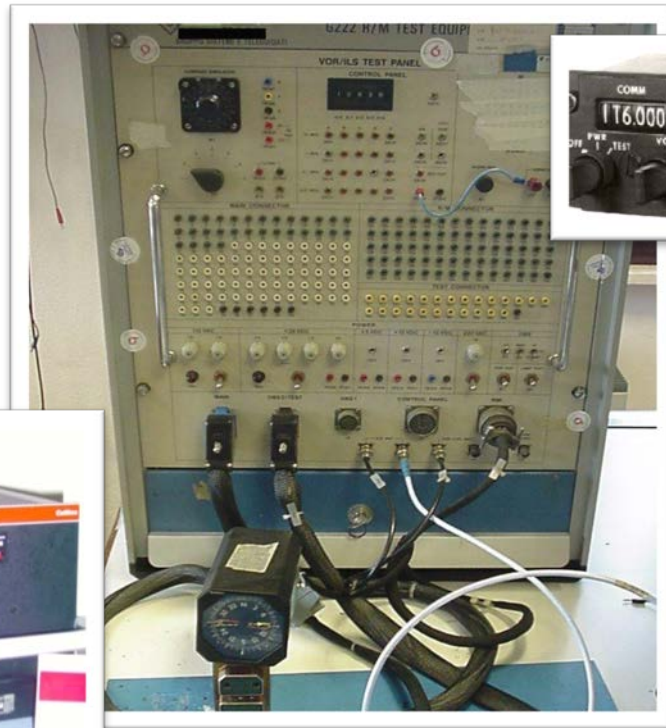
**APN 198 RADARALTIMETER
SYSTEM TEST SET**



**COLLINS 980L-1A
AUTOPILOT
SYSTEM TEST SET**

MAINTENANCE ACTIVITY 4/6

The following are some components of our capability:



**COLLINS 51RV-XX
VOR/ILS**



**SYNCHROPHASER
TEST SET**



MAINTENANCE ACTIVITY 5/6

The following are some components of our capability:



**ACCELEROMETER
TEST CENTRIFUGE**



**TRUE AIR SPEED
(TAS) SYSTEM TEST
SET**



**BENDIX RDR1400
COLOR RADAR
SYSTEM**

MAINTENANCE ACTIVITY 6/6

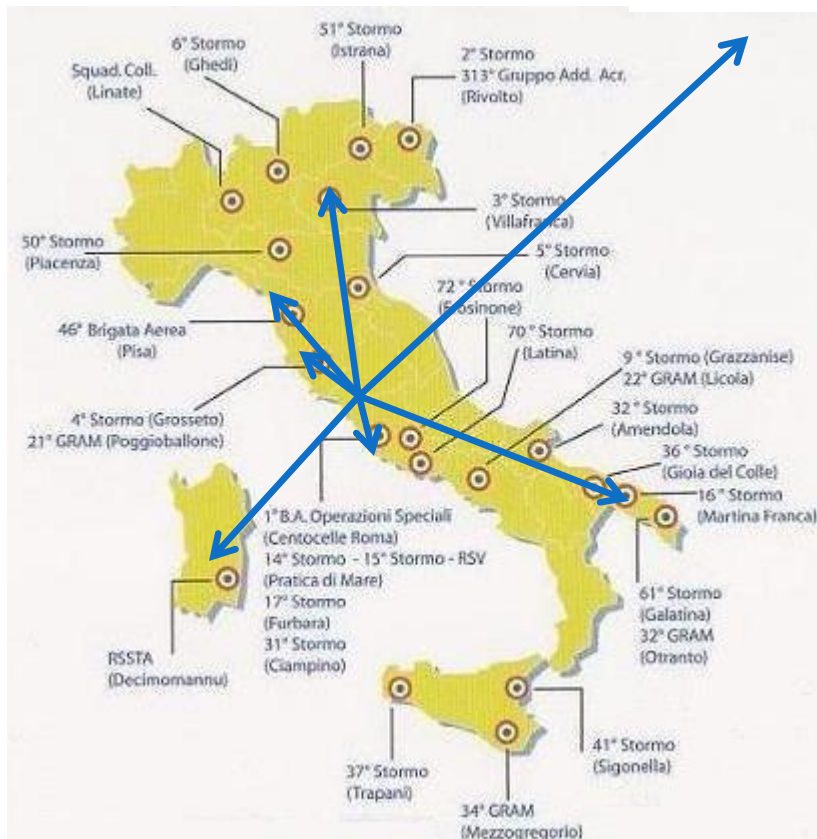
The following are some components of our capability:



PROPELLER ASSEMBLY

AVIOELECTRONICS SUPPORT IN ITALY

AVIOELECTRONICS products and services support Italian Air Force:



- **6° RME - Pratica di Mare (RM)**
- **RSV - Pratica di Mare (RM)**
- **14° Stormo - Pratica di Mare (RM)**
- **31° Stormo – Ciampino (RM)**
- **53° Stormo – Cameri (NO)**
- **4° Stormo - Grosseto**
- **2° Stormo - Treviso**
- **61° Stormo – Galatina (LE)**
- **46[^] B.A. – Pisa**
- **51° Stormo – Istrana (TV)**
- **41° Stormo – Sigonella (SR)**
- **4° RGT AVES -Viterbo**

LOGISTIC SUPPORT AND SERVICE PROVIDING

Avioelectronics has consolidated experience in providing forefront strategies for military and civilian systems.

Our support is carefully designed in order to meet operational requirements, while minimizing the downtime of the system and costs to support the life cycle of products.

“CUSTOM AND IMMEDIATE SOLUTIONS!”

MONITORING OF MATERIALS
HANDLING IN REAL TIME
FOR THE CUSTOMER



LAST ACHIEVEMENTS

- ✓ **Contract with Alenia Aermacchi as Maintenance Supplier (Code 70632) and as Service Provider for G-222 USAF- ANAAC Program and A.M.I. Aircraft.**
- ✓ **Contract with A.E.T.S.L. (Nigerian Government) for service and support.**
- ✓ **Contract with A.E.T.S.L. for the propeller assembly of the G-222 in Lagos.**
- ✓ **Official supplier of A.E.T.S.L. for spare parts of following aircraft:**
 - **C-130**
 - **AUGUSTA HELICOPTERS**
 - **DORNIER 228**
- ✓ **Training Course aimed at N.A.F. military personnel about Avionics Systems of the C-130H.**



MAINTENANCE SUPPLIER AND SERVICE PROVIDER

Alenia Aermacchi S.p.a.

Avioelectronics S.r.l. collaborates with Alenia Aermacchi S.p.A. (Plant in Capodichino) from January 2009 on the program G-222 ANAAC for repair and maintenance of avionic equipment.

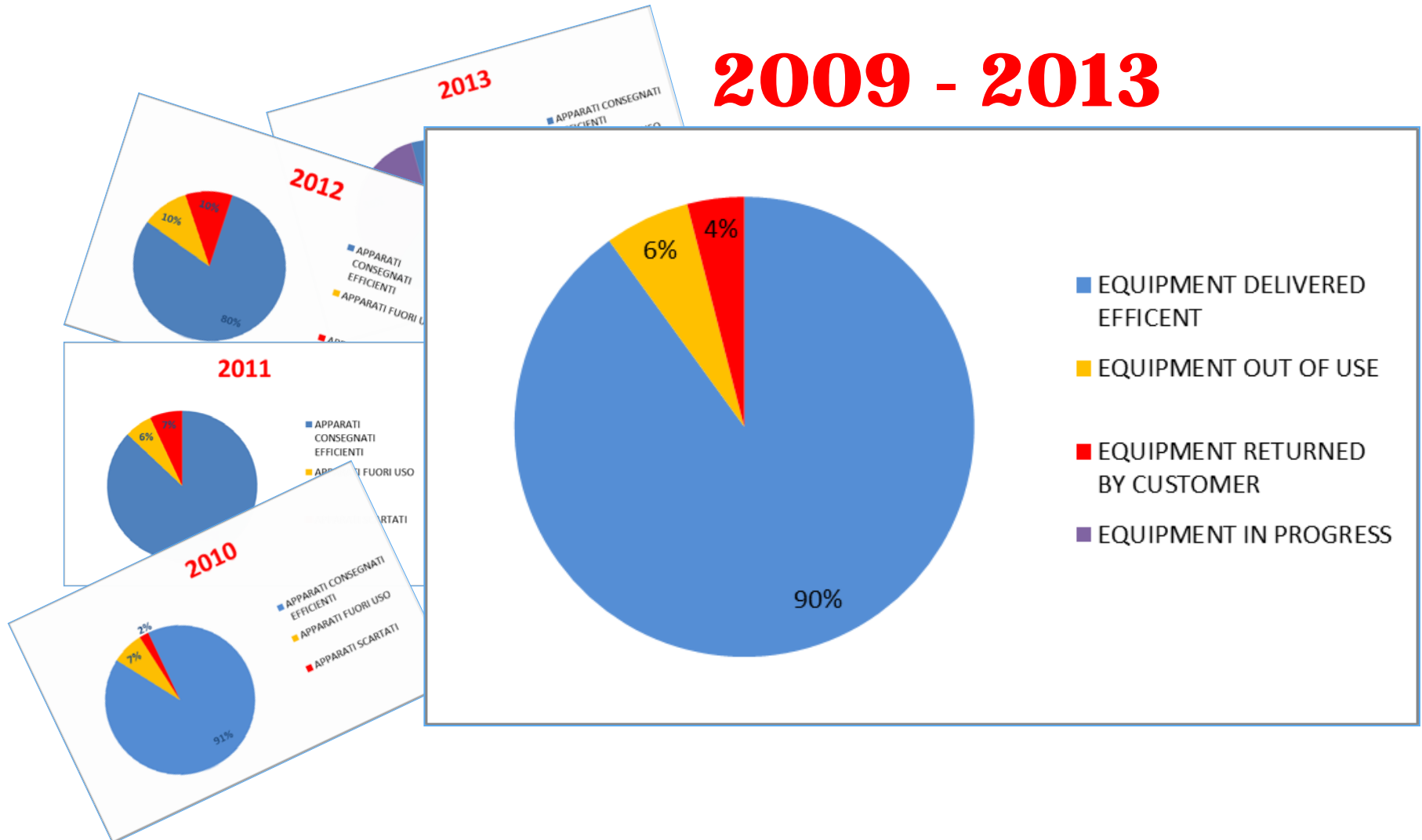


This collaboration was carried with regularity and efficiency considering that 90% of the received equipment was delivered efficiently, with a gap of devices returned by the Customer of 4% and a percentage of equipment declared out of use of 6%.

MAINTENANCE SUPPLIER

Alenia Aermacchi S.p.a.

2009 - 2013



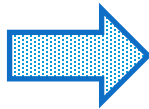
MAINTENANCE SUPPLIER AND SERVICE PROVIDER

CONTRACT MC/G/110701 – 3 August 2011

In view of the above fruitful collaboration, Alenia Aermacchi involved AVIOELECTRONICS in the Program for the operational support of the fleet G-222 USAF / ANAAC.

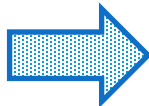
AVIOELECTRONICS ROLES:

SERVICE PROVIDER



Managing of the movement of the received equipment, monitoring on Sources of Repair for the respect of the lead times for the elaboration of the offers (on price list provided by Alenia) and for the deliveries to Alenia.

SOURCE OF REPAIR



Repair parts of its competence in the shortest time possible.

**MAINTENANCE SUPPLIER
AND SERVICE PROVIDER**
CONTRACT MC/G/110701 - 3 August 2011
SOURCES OF RAPAIR MANAGEMENT

MICROTECNICA S.R.L.

SELEX ES S.P.A.

LEAT S.R.L.

ASE S.P.A.

SIPAEL S.R.L.

LOGIC S.R.L.

ELECTRONICS AEROSPACE S.R.L.

MAGNAGHI AERONAUTICA S.P.A.

SECONDOMONA S.P.A.

FAREM S.R.L.

AVIONICA S.R.L.

GELBYSON S.R.L.

OMA S.R.L.

AVIOELECTRONICS

MAINTENANCE SUPPLIER AND SERVICE PROVIDER

CONTRACT MC/G/110701 – 3 August 2011



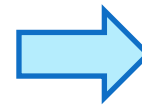
OBJECTIVE:

**REDELIVERING TO ALENIA THE HIGHER NUMBER OF EFFICIENT
EQUIPMENT, ABOVE ALL IN FUNCTION OF PRIORITY (A.O.G.)
REPORTED BY THE PROCUREMENT AND
THE PRODUCTS SUPPORT.**

MAINTENANCE SUPPLIER AND SERVICE PROVIDER

INSTRUMENTS OF INFORMATION AND DATA MANAGEMENT

**Management System ON-LINE
of all administrative and
technical documents about P.O.**

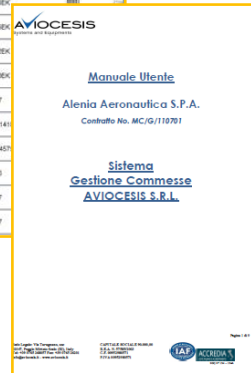


GESTIONE COMMESSA

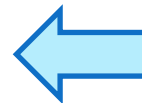
Num. commessa	091	091012011	Numero ordine	4100127005	091	190702011
Numero offerta	091		Provisione data chiusura			
Tipo commessa	Riparazione	in garanzia	Stato commessa	Aperta		
Utente	ALenia AERONAUTICA S.P.A. (C)		Telefono			
Indirizzo	CORSO MARCHE, 41		Citta	TORINO		

PRODOTTI COMMESSA

Q.13	P.N.	S.N.
1	894703	89608K
3	894703	89608K
5	894703	89608K
7	894703	89608K
9	19502447-556	017
11	RAC-606401	M0910141
13	RAC-011502	M0903459
15	R202244V	126
17	R202244V	117
19	R202-1-1A	007

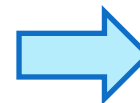


**Weekly
Report**



PART NUMBER	DESCRIPTION	S/N	ORDINE	Data d'ordine	FORNITORE	SOURCE OF REPAIR	Data di presa in carico da Avioelect
792-6091-011	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-012	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-013	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-014	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-015	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-016	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
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792-6091-099	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011
792-6091-100	INDICATORE PSI	202	4500330545	01/08/2011	AVIOELECT	AVIOELECT	29/08/2011

**Monthly situation about the state in
progress of the activities**



MAINTENANCE SUPPLIER AND SERVICE PROVIDER *Management System ON-LINE*

- ✓ Instrument of direct and immediate consultation of all the information and documents (Purchase Orders, DDT, Invoices, Work Reports, Conformity Certificates, etc.) of competence of the Customer.

MODULO RICERCA COMMESSE

Nome

Tipo commessa

Stato commessa Tutte

Sistema avionico

P.N.

S.N.

Ricerca commesse

Paginazione 40

RISULTATI RICERCA - commesse trovate: 5

N./Data Commessa	N./Data ordine	Cliente	Tipo commessa	
182 (30/07/2011)	4500326007 (07/07/2011)	ALENIA AERONAUTICA S.P.A. (G)	Riparazione	
184 (26/09/2011)	4500324281 (30/09/2011)	ALENIA AERONAUTICA S.P.A. (G)	Riparazione	
185 (25/07/2011)	4500321899 (18/07/2011)	ALENIA AERONAUTICA S.P.A. (G)	Riparazione	
186 (06/09/2011)	4500329472 (27/07/2011)	ALENIA AERONAUTICA S.P.A. (G)	Progettazione	
187 (06/09/2011)	4500330548 (01/09/2011)	ALENIA AERONAUTICA S.P.A. (G)	Riparazione	

MAINTENANCE SUPPLIER AND SERVICE PROVIDER

Management System ON-LINE of the P.O.

SEARCH CRITERIA:

- ✓ ID Invoice
- ✓ ID DDT IN
- ✓ ID DDT OUT
- ✓ Purchase Order Number
- ✓ P.O. Type (Repair, Service, Production, Design)
- ✓ Avionic System
- ✓ Part Number
- ✓ Serial Number

CONSULTATION INFO



EXPORT DATA



PRINT



MAINTENANCE SUPPLIER AND SERVICE PROVIDER

Weekly Report

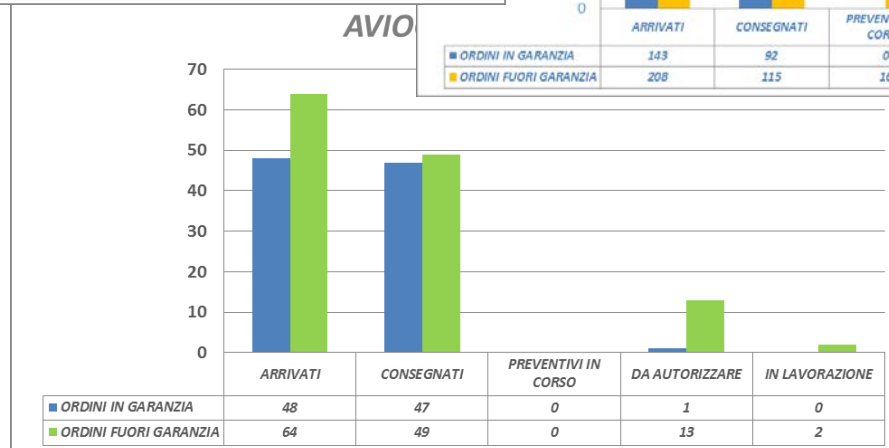
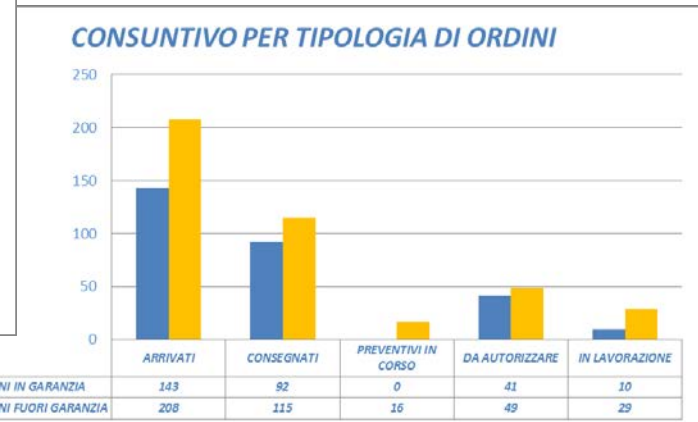
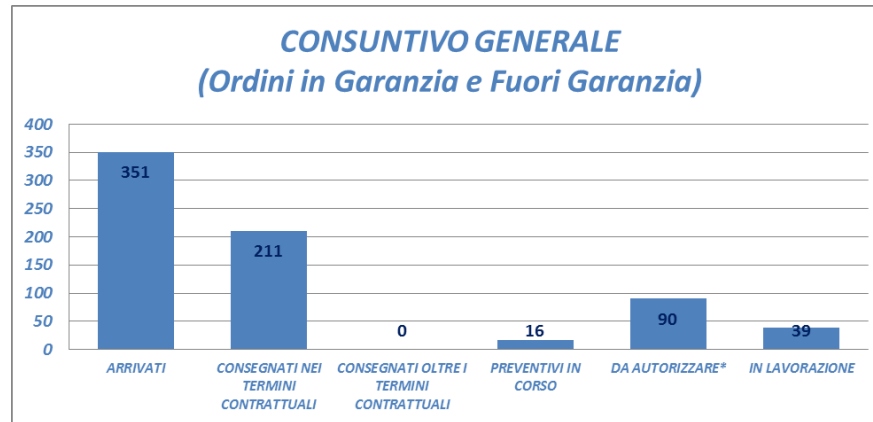
- ✓ Instrument of information and control in real-time of all data about the handling of each item.

PART NUMBER	DESCRIPTION	S/N	ORDINE	Data d'ordine	FORNITORE	SOURCE OF REPAIR	Data di presa in carico da Aviocecis
792-6091-011	INDICATORE HSI	202	4500330545	01/08/2011	AVIOCESIS	AVIOCESIS	29/08/2011
792-6091-011	INDICATORE HSI	6097	4500330545	01/08/2011	AVIOCESIS	AVIOCESIS	29/08/2011
792-6357-002	INDICATORE ADI	1279	4500330545	01/08/2011	AVIOCESIS	AVIOCESIS	29/08/2011
792-6357-002	INDICATORE ADI	3355	4500330545	01/08/2011	AVIOCESIS	AVIOCESIS	29/08/2011
3567633-3701	TRANSMITTER	8307101	4500330534	01/08/2011	AVIOCESIS	LEAT	-
3571820-0003	INDICATOR	848	4500330534	01/08/2011	AVIOCESIS	LEAT	-
4000831-0103	RICETRASMETTITORE RADAR METEO	2538	4500330534	01/08/2011	AVIOCESIS	LEAT	-
597-9050-101	CONTROL PANEL	43	4500330534	01/08/2011	AVIOCESIS	LEAT	-
4007T54G07	FILTER	RKL02379	4500330575	01/08/2011	AVIOCESIS	SECONDO MONA S.P.A.	-
515	INDICATOR	70192	4500330576	01/08/2011	AVIOCESIS	FAREM S.R.L.	-
321916-1-1	VALVE	P-848	4500335351	12/09/2011	AVIOCESIS	ELECTRONICS AEROSPACE	-
321916-1-1	VALVE	P-725	4500335351	12/09/2011	AVIOCESIS	ELECTRONICS AEROSPACE	-
E37066-3	TEMP CONTROL UNIT	NONE	4500335341	12/09/2011	AVIOCESIS	ELECTRONICS AEROSPACE	-
38E85-2B	VALVOLA	RF6684	4500335341	12/09/2011	AVIOCESIS	ELECTRONICS AEROSPACE	-
2320A000	SOLENOID VALVE	A878529	4500335341	12/09/2011	AVIOCESIS	ELECTRONICS AEROSPACE	-
PC-125-13A	STATIC INVERTER	27991	4500338690	30/09/2011	AVIOCESIS	GELBYSON SRL	11/10/2011
792-6703-002	CALCOLATORE DI VOLO	6662	4500338942	03/10/2011	AVIOCESIS	AVIOCESIS	11/10/2011
792-6357-002	INDICATORE ADI	2661	4500338942	03/10/2011	AVIOCESIS	AVIOCESIS	11/10/2011
792-6091-011	INDICATORE HSI	4151	4500338942	03/10/2011	AVIOCESIS	AVIOCESIS	11/10/2011

MAINTENANCE SUPPLIER AND SERVICE PROVIDER

Monthly situation

✓ **Monthly situation about the state in progress of the activities**



FUTURE PLANS

“AMX Program”

Supportability Aircraft AMX

AVIOELECTRONICS aims to support the equipment of the AMX Fleet in the different versions for the duration of life of the aircraft as described below:

- **MAINTENANCE, REPAIR AND OVERHAUL
ACTIVITY OF EQUIPMENT LISTED IN ANNEX 1**
- **MANAGEMENT, HANDLING AND EXPEDITING
ACTIVITY OF EQUIPMENT LISTED IN ANNEX 2**
- **RETROFIT/EXCHANGE/REVERSE ENGINEERING
AND SUPPLY OF ITEMS**

FUTURE PLANS

"AMX Program"

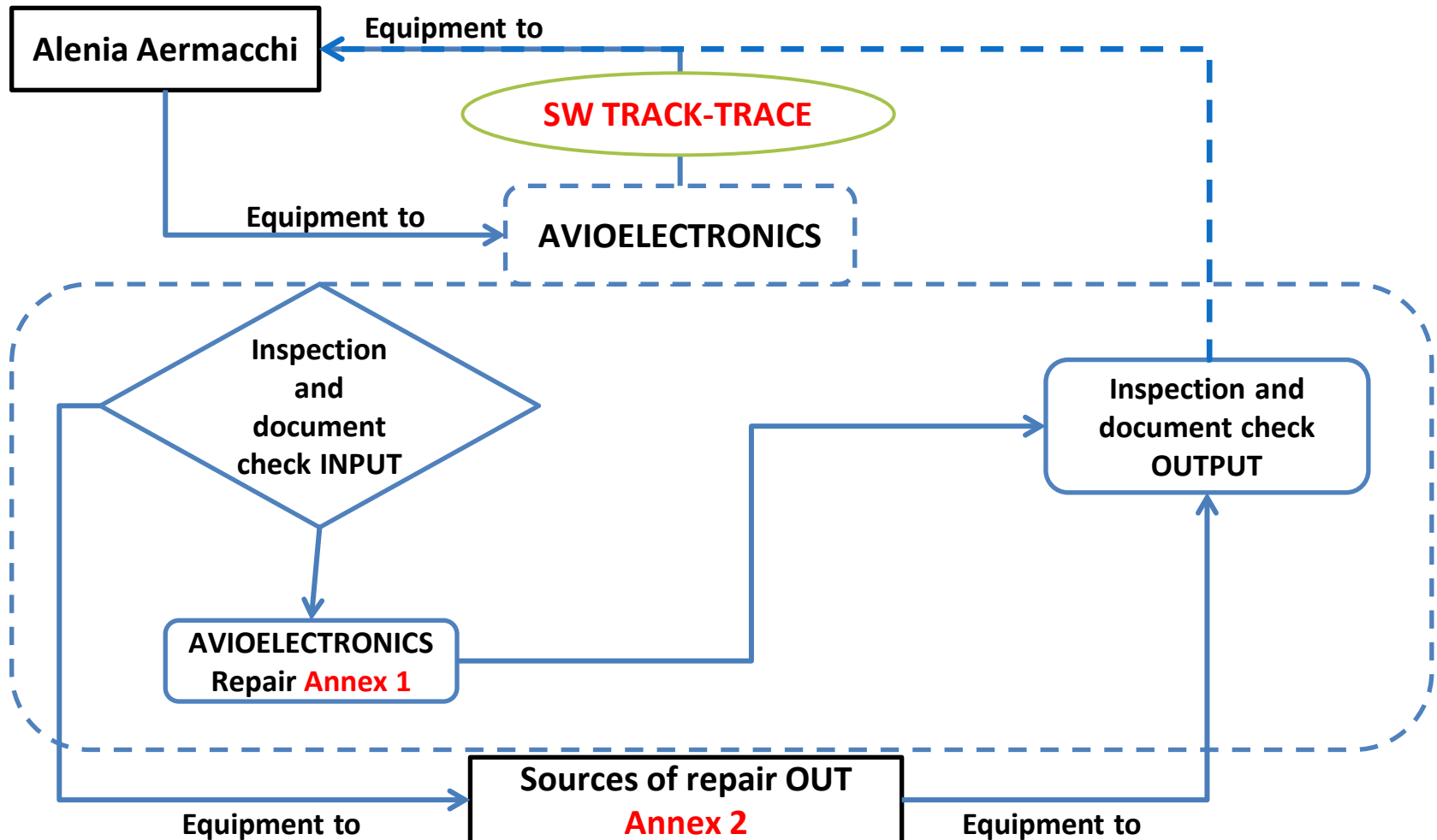
Development-Monitoring of the activities

- All activities will be carried out on the basis of commercial agreements defining average costs and TAT between the Alenia Aermacchi and AVIOELECTRONICS and between AVIOELECTRONICS and Manufacturers/Repairers qualified.
- AVIOELECTRONICS will provide a system to track and trace which will enable to Alenia Aermacchi to have full visibility on the progress of the work of all the equipment.

FUTURE PLANS

"AMX Program"

Flow Chart of the activities



FUTURE PLANS

"AMX Program"

Equipment for Testing

- STTE: so that the fleet can be supported over the years has required the reconstruction of STTE be used for the testing of the equipment on the basis of priorities dictated by A.O.G.
- AVIOELECTRONICS will ensure calibration and efficiency of STTE.
- The availability of the Service Bulletins equipment will be managed by AVIOELECTRONICS directly with Manufacturers.

FUTURE PLANS

"AMX Program"

Our Proposal

The fleet maintenance AMI: AMX, MB 339, TORNADO, C27J and C130J suffers from a considerable dependence on overseas OEM and not, and for various fleets of high age of the equipment and the loss of know-how (in the broad sense) of manufacturing companies.

The above involves long repair times (TAT) and low levers commercial due to volumes not enough representative to get / agree a better service in terms of responsiveness and costs.

Avioelectronics aims, in the face of a clear definition of items and exclusivity on them, to work towards the acquisition of international licenses (subject to authorization by Alenia Aermacchi) and to provide all the know-how for reconstruction and continued operation of tools and test set of equipment of fleets assigned.

It would provide the conditions to receive the proper attention of the Alenia Aermacchi and therefore of his / her customers, resulting in more efficient spare parts, based on a "common" Warehouse, and a TAT of no more than 3-4 months and to maintain in operation in the years.

FUTURE PLANS

"AMX Program"

ANNEX 1 - Avioelectronics repair activity

ID	Material Support PART NUMBER	Material Support DESCRIPTION
4	8.191.006	INDICATOR,VERTICAL SPEED
5	8.193.006	INDICATOR, MACH AIRSPEED
6	8.323.001	IFU IMAGE
7	8.323.005	IFU IMAGE
8	8.325.010	INTERFACE UNIT,BUS CONT/ANALOGIC
9	8.338.001	SELECTORS,AUTIPILOT AND FLIGHT DIRECTOR
10	8.352.001	SELECTORS,NAVIGATION FIXING
11	8.353.001	SELECTOR RANGI
12	8.353.010	NAV.MODE/WARS
13	01UV1001-3	CENTRAL SUPPRESSION UNIT
14	02EF1001-2	N.D.E.
24	160094-02-01	INTERFACE UNIT, RDE
25	160094-03-01	INTERFACE UNIT,RDE
26	160753-04-01	POWER SUPPLY CARD
27	164191-01-02	DATA TRANSFER UNIT, RDE
28	16EF1001-1	N.D.E.
29	16EF1001-2	N.D.E.
30	19MW1001-1	RADAR ALTIMETER RECEIVER/TRANSMITTER
31	19MW1001-1A	RADAR ALTIMETER RECEIVER/TRANSMITTER

ID	Material Support PART NUMBER	Material Support DESCRIPTION
32	19MW1001-2	RADAR ALTIMETER RECEIVER/TRANSMITTER
33	2004KID01-001	INDICATOR,FUEL QUANTITY
34	21EF1001-1	N.D.E.
35	21EF1001-2	NAVIGATION DATA ENTRY
36	21EF1001-3	NAVIGATION DATA ENTRY
46	27CT1001-4	FLIGHT CONTROL COMPUTER
47	27CT1001-5-00	FLIGHT CONTROL COMPUTER
48	27CT1001-6	FLIGHT CONTROL COMPUTER
64	490475002-1	NAVIGATION DATA ENTRY
65	490475003-1	NAVIGATION DATA ENTRY
66	490875001-1	NAV.MODE/WARS
67	490975001-1	RADAR ALTIMETER RX-TX
68	490975002-1	RADAR ALTIMETER INDICATOR
76	8.323.005MOD.S TATE-A	INTERFACE UNIT, BUS
77	8.353.001MOD.A	NAV.MODE/WARS
78	8.353.010A	NM/WARS
80	A4132210116	SERVO-BARO ALTIMETER
85	K310A076-21	BUS CONTROLLER MAIN COMPUTER
115	E538-048-001	CENTRAL MAINTENANCE PANEL

FUTURE PLANS

"AMX Program"

ANNEX 2 – Avioelectronics Service Provider 1/2

ID	Material Support PART NUMBER	Material Support DESCRIPTION
1	11024	ACCELEROMETER
2	11025	RECORDER UNIT
3	644456	INTERFACE AND BITE UNIT
15	06DB05-TYP828	INDICATOR, HYDRAULIC PRESSURE
16	06DB07TYP1185	F.C.COMBIN.INDICATOR
17	06DB07-TYP1185MOD.01	INDICATOR, COMBINED FLIGHT CONT
18	06DB07-TYP1185MOD.02	INDICATOR, COMBINED FLIGHT CONT
19	1002145A02-00	RADAR ALTIMETER RX-TX
20	1023623A02-00	HDDU
21	1023623A02-01	HDDU
22	1024188A02-02	COMPUTER SYMBOL GENERATOR
23	145-0246/19	VOR/ILS RECEIVER
37	2-56854.0100//A	TRANSCEIVER, V/UHF
38	2-56854.0210//A	TRANSCEIVER, V/UHF
39	2-56854/A	TRANSCEIVER V/UHF
40	2-56854-0200/A	TRANSCEIVER V/UHF
41	2-74215.0000//A MOD.ST 3	CONTROL PANEL, V/UHF
42	2-74215.0000//AMOD.STATE6	CONTROL PANEL, V/UHF
43	2-74215.0200//A	CONTROL PANEL, V/UHF
44	2-74215.0300//A	CONTROL PANEL, V/UHF
45	2-74215-0000//A	CONTROL PANEL, V/UHF
49	30680-00000	TRANSCEIVER
50	30680-00001	TRANSCEIVER, V/UHF
51	30700-00000	CONTROL PANEL, V/UHF
52	30700-00001	CONTROL PANEL, V/UHF

ID	Material Support PART NUMBER	Material Support DESCRIPTION
53	39274-001	INDICATOR, LIQUID OXYGEN
54	3-93783.0000//A	REPEATER,
55	39689-002	ASSIEME SEGNALE
56	39690-002	ASSIEME AMPLIFICATORE
57	43241-001	AMPLIFIER, LOX QTY INDICATOR
58	43241-003	AMPLIFIER, LOX QTY INDICATOR
59	44280-004	CONVERTER, OXYGEN
60	44280-005	CONVERTER OXYGEN
61	44280-006	CONVERTER OXYGEN
62	44320-003	HIGH VOLTAGE P.S.
63	44382-002	PANEL ASSY
69	597-5650-003	PANEL COMMUNICATION CONTROL
70	597-5650-005	PANEL COMMUNICATION CONTROL
71	597-5650-006	PANEL COMMUNICATION CONTROL
72	597-5650-014	PANEL, COMM CONTROL
73	597-5650-016	PANEL, COMM CONTROL
74	597-5651-001	BOX ASSY, GROUND CREW JACK
75	737080A	INTEGRATED DRIVE GENERATOR
79	8DJ142LXS4	INDICATOR ASSY
81	AA69.4	TRANSFORMER RECTIFIER UNIT
82	AA70	HIGH ENERGY IGNITION UNIT
83	AA74	HIGH ENERGY IGNITION UNIT
84	H1900K-46A	ENGINE TGT & CYCLE COUNTER
86	L301054	HIGH ENERGY IGNITION UNIT
87	L301056	HIGH ENERGY IGNITION UNIT

FUTURE PLANS

"AMX Program"

ANNEX 2 – Avioelectronics Service Provider 2/2

ID	Material Support PART NUMBER	Material Support DESCRIPTION
87	L301056	HIGH ENERGY IGNITION UNIT
88	MB098B-01	DATA TRANSFER UNIT
89	NB9518	HIGH ENERGY IGNITION UNIT
90	RAC001ES	SWITCH UNIT
91	RAC-0626/01	RICETRASMETTITORE RADIO
92	RAC-5865/01	CONTROL PANEL, V/UHF
93	S7261-W4001-A3	TRANSPONDER ASSY,
94	SU50A178/C	PYLON UNIT INBOARD
95	SU50A179/C	PYLON UNIT,OUTBOARD
96	SU50A181/C	PYLON UNIT CENTER
97	SU50A182/C-08	UNIT WEAPON PROGRAMMING
98	SU50A182/D-04	UNIT WEAPON PROGRAMMING
99	SU50A193/C	WEAPON PROGRAMMING UNIT
100	SU50A193/C-01	WEAPON PROGRAMING UN
101	SU50A193/C-02	WEAPON PROGRAMMING UNIT
102	SU50A193/C-04	PROGRAMMING UNIT,WEAPON
103	SU50A193/D-00	WEAPON PROGRAMMING UNIT
104	SU50A193/D-02	WEAPON PROGRAMMING UNIT
105	SU50A193C-03	WEAPON PROGRAMING UN
106	SU50A193D	WEAPON PROGRAMING UN
107	SU50A194	WEAPON CONTROL PANEL
108	SU50A194/C	CONTROL PANEL, WEAPON
109	SU50A194/C-00	WEAPON CONTROL PANEL
110	SU50A194/C-01	CONTROL PANEL, WEAPON
111	SU50A194C-1	WEAPON CONTROL PANEL
112	SU50A291	WEAPON CONTROL PANEL REAR
113	SU50A291-01	WEAPON CONTROL PANEL REAR
114	TAD-0025/02	PAN. FRONT. TRASPONDITORE IFF

FUTURE PLANS

“MB 339 Program”

AVIOELECTRONICS aims to support the equipment of the MB 339 Fleet as listed below:

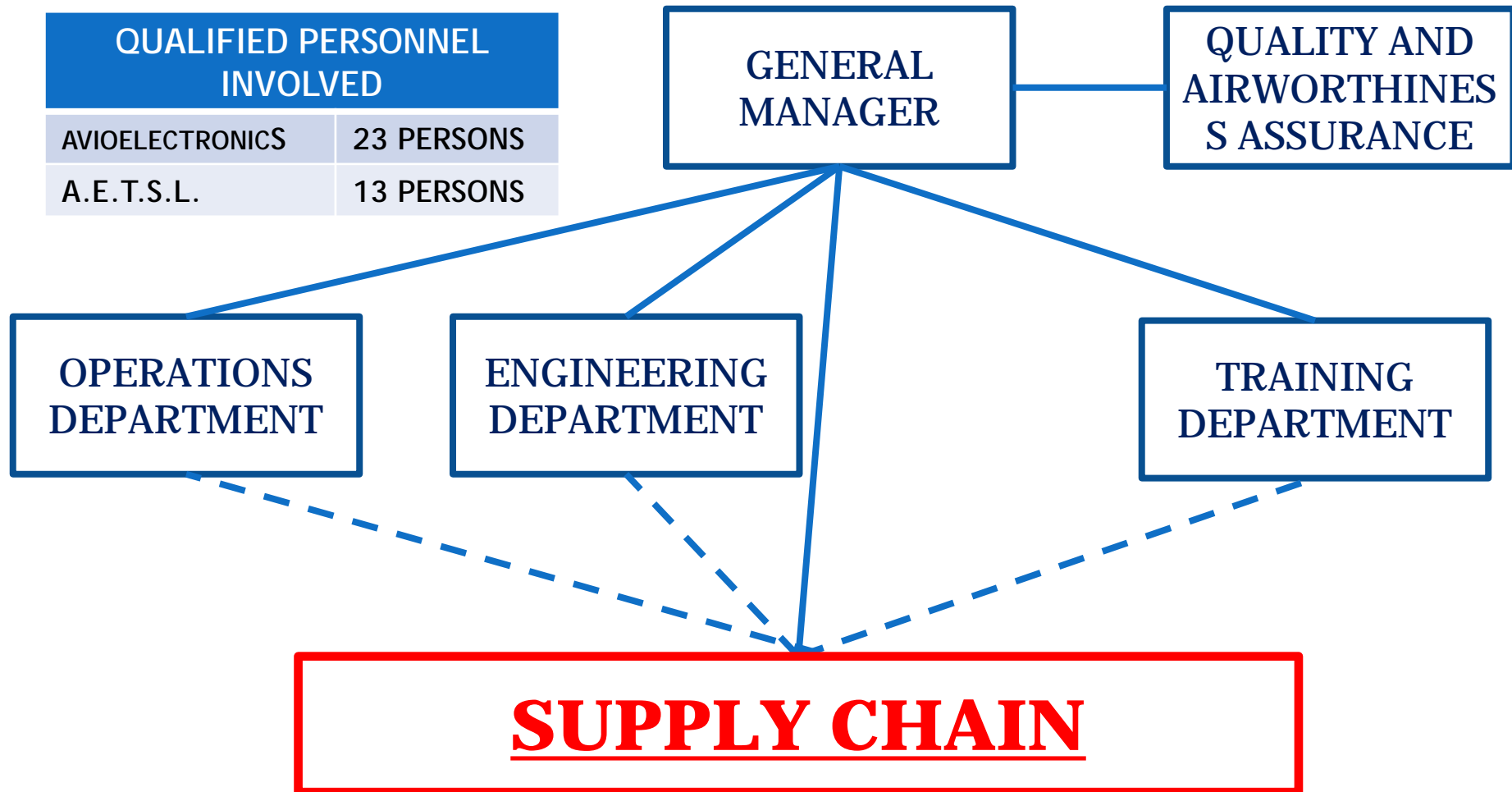
P/N	DESCRIPTION
30-1033-1	STROBE LIGHT
MAE4994MOD01	CALCOLATORE FLUSSOMETRO
MAH4970	TRASMETTITORE FLUSSOMETRO
SLZ9280	TRASMETTITORE AOA
SLZ9837	INDICATORE AOA
MAL4901	INDICATORE FLUSSOMETRO
114071-1	IND. POS. TRIM
114074-2	IND. POS. TRIM
193D-03	RELE' GRAVINER
871FA312SP5A	RILEVATORE DI GHIACCIO
1281AF3B1B	EQUIPAGGIAMENTO
409423	REGOLATORE OSSIGENO
3010-10-500	ACCELEROMETRO
10-532-20	IMMUNITY FILTER

AVIOELECTRONICS IN INTERNATIONAL TERRITORY

AVIOELECTRONICS PRODUCTS AND SERVICES ARE CURRENTLY
IN SUPPORT OF NIGERIAN AIR FORCE IN NIGERIA IN LAGOS-
HANGAR IKEJA FROM JUNE 2015 TO JUNE 2020.



STUDY FOR THE REALISATION OF A MAINTENANCE CENTER Nigerian Air Force



FINAL OBJECTIVE

Nigerian Air Force

HIGH EFFICIENCY AND SAFETY OF FLEET
HIGH QUALITY OF TRAINING
FEW AIRCRAFT ON GROUND (A.O.G.)
LOW MAINTENANCE COSTS
PURCHASE OF LOW PARTS
CUSTOMER SATISFACTION



TRAINING FOR MAINTENANCE OF AVIONICS PARTS

The **AVIOELECTRONICS TRAINING DEPARTMENT** is dedicated to providing outstanding flight and maintenance training enabling our customers to achieve the highest level of safety and efficiency in the operation and maintenance of their aircraft: **C-27A/G-222** and **C-130H**. The available courses range from basic training for unskilled personnel to specialized training for skilled personnel.

AVIOELECTRONICS training is designed for through-life effectiveness from the outset, as a fully integrated accompaniment to long term operational support solutions, including flight/mission planning and logistic support systems. Advanced multi-media technology is available in the classroom and via web-based training, with part task trainers and simulators ensuring a cost-effective allocation of training tasks.

TRAINING FOR MAINTENANCE OF AVIONICS PARTS

Our course provides all the skills necessary to work on electronic equipment and avionics. It is intended for candidates who have an understanding of electronics principles, a basic knowledge of electronic systems down to component level.

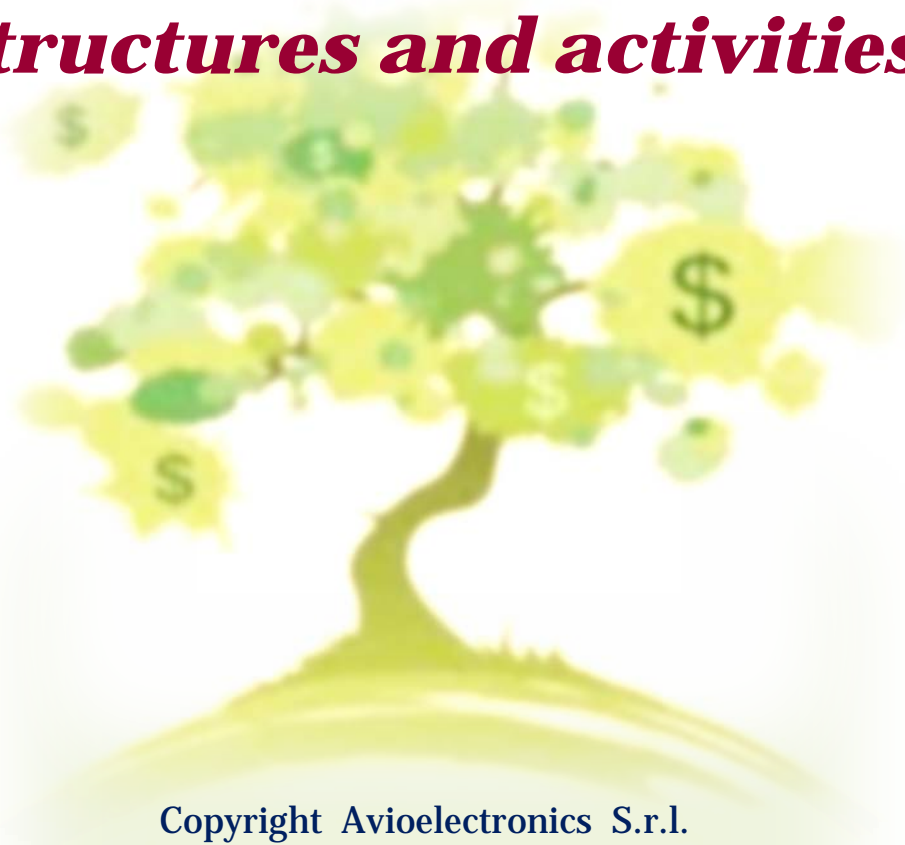
This course is essential for anyone involved in repair and maintenance of avionics and aircraft equipment, including those who are responsible for supervising the repair and quality of electronic systems and equipment.

The objective of our course is to provide the Applicant with theoretical and practical skills required to ensure safe performance of maintenance, inspections and routine activities on electrical and avionics systems according to the Maintenance Manual.



RENEWABLE ENERGY SOLUTIONS

Structures and activities





AVIOELECTRONICS S.R.L. is an international reality that in 2012 decided to make available its experience and expertise in the **renewable energy** sector with the design of optimal structural and functional solutions.

Our qualified personnel offers a full support and customized for renewables energy production.



In last years it has grown steadily the focus on the theme of the environment and energy conservation.

With this expression, in particular, refers to the set of technologies and behaviors to promote a more conscious and careful management of energy.

***AVIOELECTRONICS S.R.L.*, sensitive to environmental issues, works in harmony with nature by offering products and services designed to optimize energy consumption, reducing waste and therefore costs.**



OUR MISSION ?

To change consumption habits without interference with productivity, because an efficient use of energy allows to consume less for the same service ...

... and save it becomes natural!



OUR VISION ?

“Consume less and consume better”

For *AVIOELECTRONICS S.R.L.* the rationalization of energy resources leads to an **Energy Saving** and therefore a **Cost Saving**.



There are two ways :



- the optimization of energy use, which is a more conscious use of energy sources that avoid, where possible, waste
- the self-production by technologies with a low environmental impact (CO2 reduction emissions)

For companies that need to reduce the cost of management to have more free resources to invest in its core business, the **Energy Management is a key point.**

***AVIOELECTRONICS S.R.L.* offers to companies and public administrations an integrated system solutions for the production of renewable energy and for the adjustment to the current rules on energy saving.**

With AVIOELECTRONICS S.R.L.



***Energy is a “Resource”
and not a cost!***



WHY CHOOSE TO CHANGE AND INVEST IN RENEWABLE ENERGY SOURCE ?

- **Don't contribute to climate change**
- **Don't produce acid rain**
- **Don't have serious security problems (for example, nuclear waste)**
- **Help to reduce air pollution**
- **Don't produce toxic waste**
- **Offer constant sources of energy**
- **Promote economic development**



Our services will be positioned very carefully. They will be of extremely high quality, relevant, timely and tailored to the customer's needs, thereby benefiting the overall economy. As our new products penetrate the Nigerian market through massive distribution and proper market segmentation, new markets will be created and maintained.

Nigeria as the largest economy in Africa.

We observe the many brands and products in the Nigerian market from varying companies, most enjoying patronage. Our product will soon be part of the choicest brand in Nigeria. Nigeria has a population of over 170 million people. The country is divided into four zones; Northern, Southern, Western and Eastern zones. The country is made up of 36 States and one Federal Capital Territory.

There are States that holds the Population size like Ibadan, Lagos, Kaduna and Kano States. They also hold the commercial, financial, and industrial strength of the country. Included among them are Rivers, Delta, Abia, Cross River and Akwa Ibom States.

The Federal Capital Territory Abuja is truly a major administrative center. The country has an abundance of both private and public agencies, institutions and firms that will definitely be interested in our products. Thousands of shops, factories, industries, pharmaceutical wards, hospitals, hotels, schools and many more located all over the country, makes Nigeria a viable location for our products. Residential homes and workshops and Rural Areas without electricity will be interested in our AVIOELECTRONICS **Solar Streets Lights (S.S.L.) and **Solar Kit Stand-Alone (A.S.K.S.A.)** and biomasses systems products **(B.E.G.P.)****

By playing our cards correctly, the attention of the Nigerian government, small sized companies and private investors will be drawn to our Biomass Energy Generation Plant (**B.E.G.P.).**

The Nigerian government for decades has been grappling with energy generation problems.

Our Biomass Energy Generation Plant will contribute immensely in boosting power generation in Nigeria.

We will ensure that all the relevant bodies acknowledge the high economic value it will derive by installing our Biomass Energy Generation Plant (**B.E.G.P.) in Nigeria.**

OUR PRODUCTS FOR NIGERIA

- ***METROLOGIKA MICRO ONE DEVICE (M.M.O.D.)***
- ***SOLAR STREETS LIGHTS (S.S.L.)***
- ***AVIOELECTRONICS SOLAR KIT STAND-ALONE
(A.S.K.S.A.)***
- ***BIOMASS ENERGY GENERATION PLANT (B.E.G.P.)***

METROLOGIKA MICRO ONE DEVICE (M.M.O.D.)

works in conjunction with metrologika BIO H₂O₂ disinfectant (Hydrogen Peroxide). This product offers a ready to use disinfectant airway for decontamination of surfaces and environments.

METROLOGIKA MICRO ONE DEVICE (M.M.O.D.)

The device performs disinfection function. It is used to sanitize surfaces and environments. The device works in conjunction with BIO H₂O₂ disinfectant (Hydrogen Peroxide). The device can be connected to ambulance vehicles, where it disinfect microorganism which may likely be present in the vehicle. The device is useful to use in all those environment in which there is a periodic activity of prevention and safety measures aimed to protect the workers' health.



- Odorless
- Quick reuse of treated environments
- It is not necessary to remove the product from treated surfaces
- Elimination of odours of microbial origin
- Degradation in totally harmless elements (water and oxygen)
- Reatment of all surfaces including those most difficult to reach

DESCRIPTION OF THE ATOMIZATION DEVICE OF THE CHEMICAL

It is an intelligent electronic device used to the micronization of decontamination products in confined environments.

The size of less than five microns of active ingredient supplied by the device allow homogeneous treatment of surfaces contained in confined environment without creating the store and moisture.

The habilitation of the use of the MICRO One takes place following the identification of the chemical to be sprayed and the environment to be treated. The informations obtained, give the beginning of the operating cycle of the MICRO device One and the LEDs positioned on the top communicate to the operator the correct performance of the operations required in order to protect their health.

The microprocessor included in the MICRO One allows at the term of operation, the transmission of informations collected on the network METROLOGIKA to process a report of occurred treatment including traceability and verification of proper conduct of sanitising activity.

METROLOGIKA MICRO One

DESCRIPTION OF REPORTS OF TREATMENT OCCURRED

At the end of the activities of the environmental decontamination, the network METROLOGIKA processes in real time a summary document of the treatment carried out.

The occurred treatment report is placed inside of a virtual file reserved for the user.

The document states:

- personal data
- technical description and characteristic environment treated
- date, time, beginning and end of treatment
- date, time of occurred report
- production lot and expiration date of the product used
- production lot of the micro one device
- environment treatment frequency
- calendar and scheduling upcoming treatment

AVIOELECTRONICS SOLAR KIT STAND-ALONE (A.S.K.S.A.)

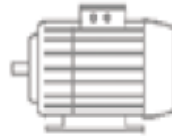
This Solar kit Stand Alone product is used for electrical power generation. It is easy to install and pre-sized. It is available in five different power sizes in order to meet all possible energy requirements. The kits are suitable for continuous loads of 500w to 6kw, with several days of autonomy even in the absence of sun. The charge regulators have MPPT technology for tracking the maximum power point. High utilization of the solar source, at all times of the year and in all temperature conditions, ensures the best and very fast charging of batteries.

AVIOELECTRONICS Solar kit Stand-Alone (A.S.K.S.A.)

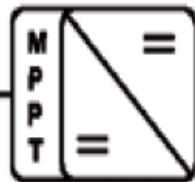
are used for electrification of areas without electrical power grid, replaces or used in combination with biomass or diesel generators to reduce management cost, to meets residential to small workshop needs using high quality Italian/European materials.

**SOLON Photovoltaic
Modules Blue/Black
220/16**

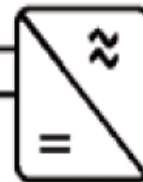
**Diesel Generator
(if installed)**



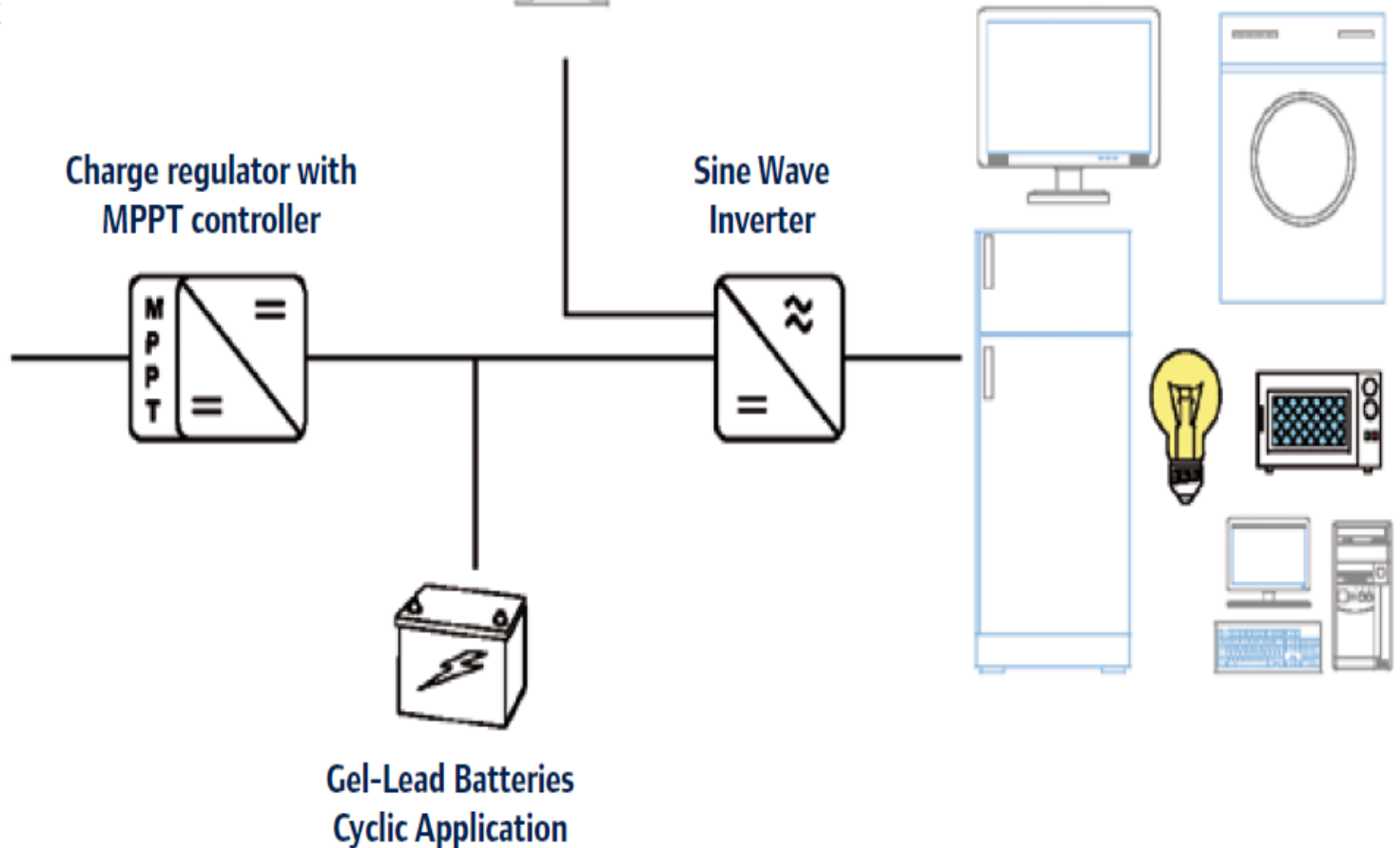
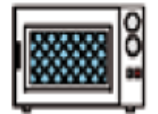
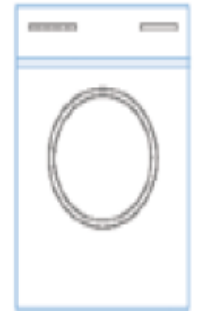
**Charge regulator with
MPPT controller**



**Sine Wave
Inverter**



**Gel-Lead Batteries
Cyclic Application**



SOLAR ENERGY COMPOSITION BREAKDOWN

	KIT ISL – 6KW	BPT – S 6,6KW HYBRID
PV Modules (SOLAR PANELS)	5.698,00 (24)	5.698,00 (24)
Inverter	5.040,00 (1)	4.620,00 (1)
Solar Charger	570 (1)	480 (1)
Batteries* (KIT ISL/GEL – BPT-S/LITHIUM)	7140 (12) Gel Batteries	14.851,00 (CABINET) (12) Lithium batteries
Monitoring	980 (1)	1.421,00 (1)
MPPT	1372 (1)	N.A.
CASE	N.A.	1.480,00 (1)
Total Unit price		

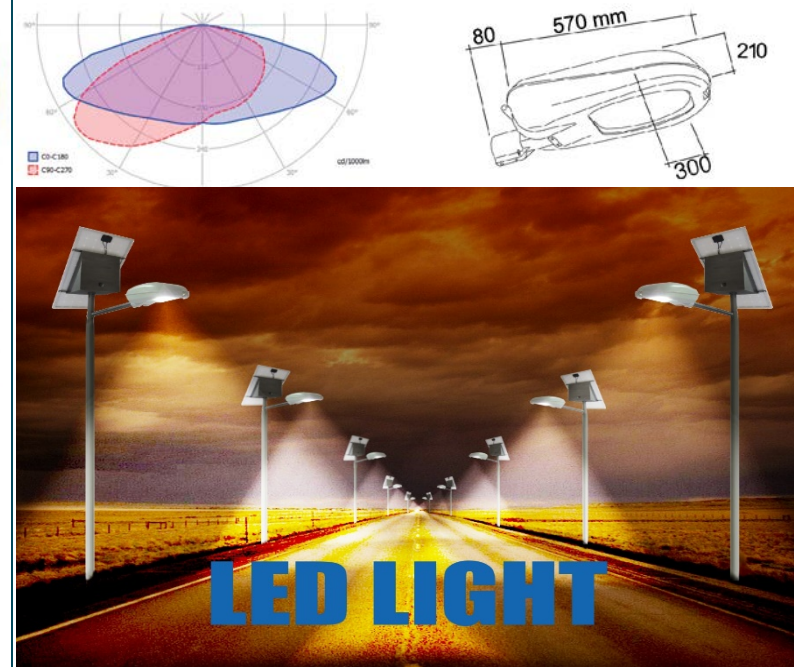
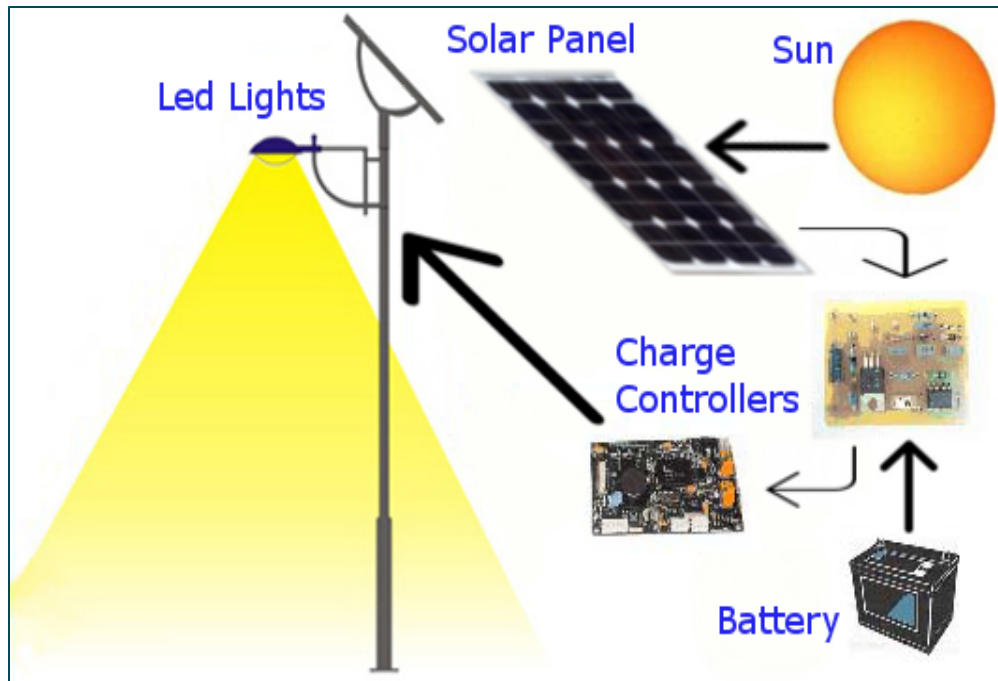
	KIT ISL – 6 KW	BPT-S 6,6 KW HYBRID
Inverter Continuous Power [W]	6.000	6.600
Total PV Power Output [Wp]	6.000	6.600
Energy Storage Capacity [kWh]	1.440	4.400
Batteries	Gel - lead cyclic application	Lithium Ion
Hours of autonomy at a quarter of the continuous load	Over 6 hours	Over 6 hours
Energy Storage System Cycles	1.200 (50% discharge)	7.000 (75% discharge)
Weight [Kg]	470	222

AVIOELECTRONICS SOLAR STREETS LIGHTS (S.S.L.)

A new generation of systems for street lighting with solar energy.

The new photovoltaic street lamps led by Avioelectronics are products “Made in Italy” high efficiency, low maintenance and long lasting. Depending on the required brightness you can choose between three models: LEDLIGHT 18, LEDLIGHT 28 and LEDLIGHT 36.

All models are dimensioned to obtain a range of about 6 days in total absence of light.



OUR LAST WORK

PROJECT: CONSTRUCTION OF 50 LED SOLAR STREET LIGHT
LOCATION: EDO SOUTH (NIGERIA)



Nigeria, located in the equatorial zone, is subject to the overall maximum solar exposure.

This means that using photovoltaic source, a large amount of energy can be converted into electricity.

MAIN COMPONENTS



Solar Panel



Charge Controller



Storage Battery

EN-TYPE



EG-TYPE



Lamp-house



Structure: case, frame and arm



OUR LAST WORK

**PROJECT: CONSTRUCTION SOLAR ENERGY BACKUP SYSTEM
AND SOLAR ENERGY SYSTEM**

LOCATION: KADUNA (NIGERIA)



3 KW SOLAR ENERGY

This means that using **photovoltaic source**, a large amount of energy can be converted into electricity.



6 KW SOLAR ENERGY SYSTEM BACKUP

BIOMASS ENERGY GENERATION PLANT (B.E.G.P.)

Biomass refers to organic material first used to generate a number of energy resources, including heat, liquid or gas, and electricity. Chemical energy stored in Biomass can be converted into heat through combustion (combustion or gasification). The Biomass can be converted into liquid or gaseous fuels or can be used to generate electricity in the same manner in which the coal is used. The electricity generated can be sold directly to energy consumers. A Biomass Energy Generation plant (B.E.G.P.) has been modified to easily carry out these processes, resulting in power generation.

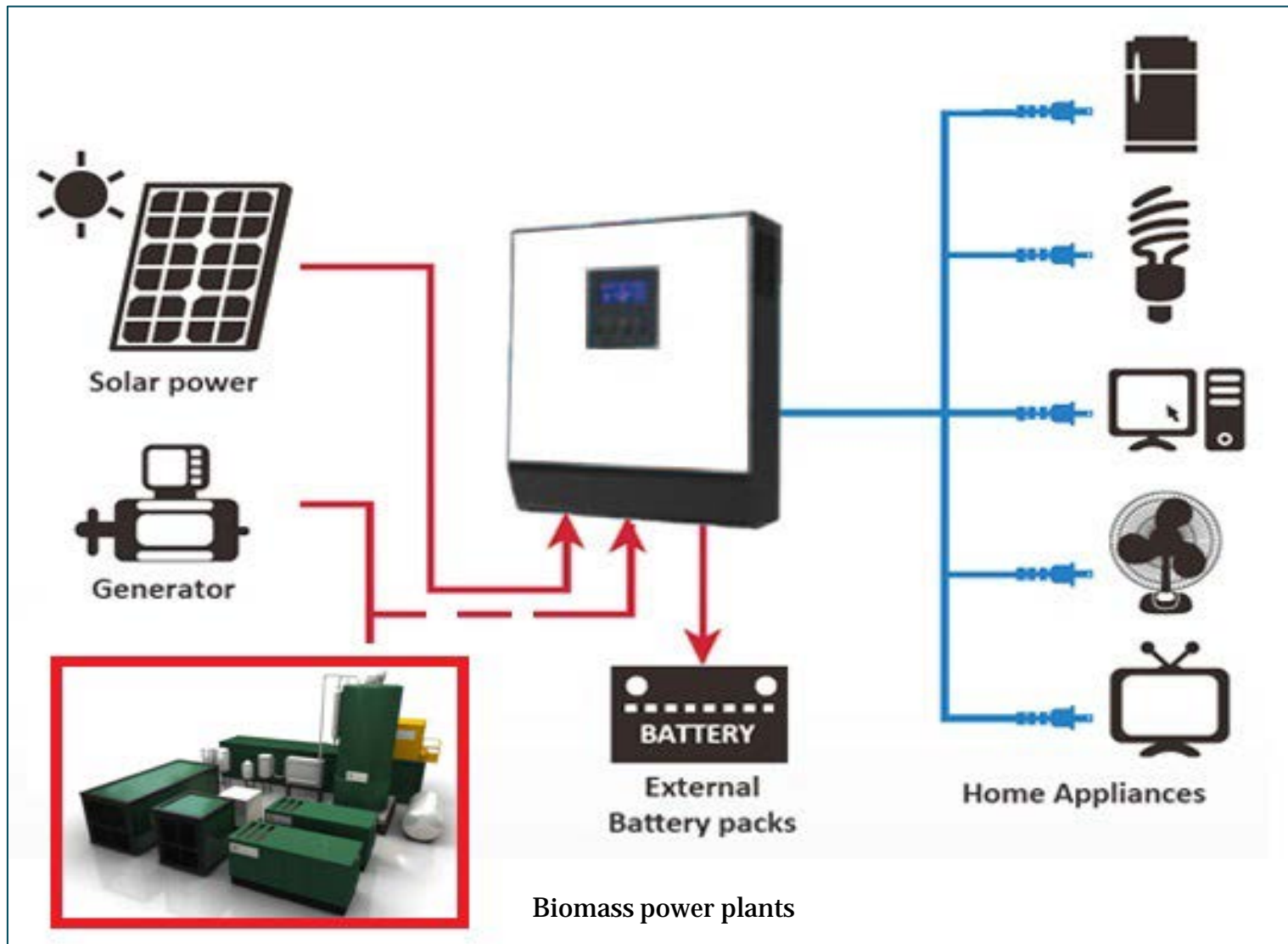
Biomass Energy Generation Plant (B.E.G.P.) can be used to generate electricity through the use of raw materials like firewood, agricultural and forestry residues, discard from food industry, animal wastes and plant species grown for such purposes high quality Italian/European materials.

CASE STUDY FEASIBILITY

We are developed this feasibility study for a case to generate energy for 200 houses.



FLOW CHART OF HYBRID SYSTEM

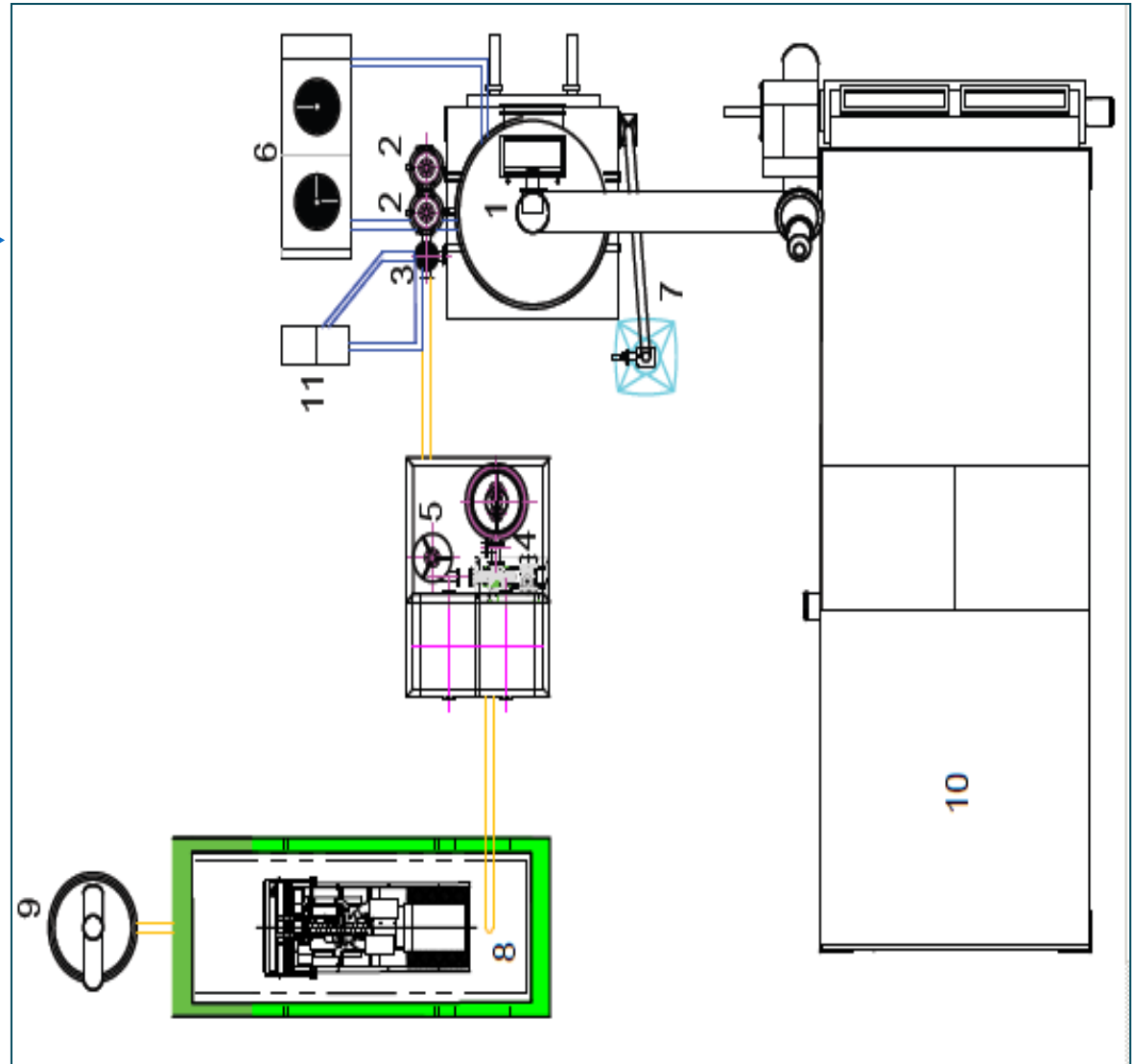


TYPICAL BIOMASS PLANT LAYOUT



Description

1. **Pyrogasifier**
2. **H2O Scrubbers**
3. **Heat Exchanger**
4. **Cyclon filter**
5. **Biomass filter**
6. **Dry Cooler**
7. **Charcoal sink**
8. **Co-generator**
9. **Anti pollution system**
10. **Biomass storage**





OUR BIOMASS GASIFIER PLANT



Description

1. Pyrogasifier **syngas producer**
2. Biomass storage **container 18tons per 3 - 4 days energy**
3. Automatic screw conveyor feeder system for **biomass loading**

OUR BIOMASS GASIFIER PLANT



Plant Description

1. **Pyrogasifier: syngas producer**
2. **Charcoal sink screw conveyor system and bag filter**
3. **Syngas scrubbers to clean the syngas from particle**
4. **Syngas heat Exchanger to cooling the syngas**
5. **Biomass filter to clean the syngas from water particles**
6. **Cyclon Filter to separate water particles from syngas**
7. **Process water decanter to actualize a close circuit and to impede water dispersion**
8. **Syngas extraction blower to activate the process.**

OUR BIOMASS GASIFIER PLANT- CO GENERATOR



Description

- Power Gen dual fuel (**syngas-diesel**)
200 KWe power rating
Heat recovery system up to 400 kWth

TYPES OF BIOMASSES TO BE USED

Biomasses are a collection of materials of plant origin, wastes from agricultural activities, reused in special power plants to produce electricity. Let's make a list of the main raw materials for energy production from biomass:

- ❖ firewood**
- ❖ agricultural and forestry residues (including palm kernel shell)**
- ❖ discard the food industry**
- ❖ PKS**
- ❖ municipal waste**
- ❖ plant species grown for the purpose**

Draw energy from biomass allows for eliminating waste products from humans and agri-forestry activities and simultaneously generate electricity, reducing dependence on fossil sources of nature such as oil .

OUR NIGERIAN PARTNER



AVIOELECTRONICS L.T.D. is an international reality that make available its experience and expertise in the **renewable energy** sector and in the area of **security systems**, with the design of optimal structural and functional solutions.

Our qualified personnel offers a full support and customized for lighting and alarm systems and video surveillance.

We deal **development and revision of electronic and electro-mechanical systems**, in addition to the **training** and the organization of an efficient **logistic support service** in the military (airborne, terrestrial and aerospace).

We work in each project with professionalism, passion and enthusiasm, offering our support ON-SITE in NIGERIA.

We work in following cities: Abuja, Ilorin, Lagos, Enugu, Kaduna.

AIMS ACHIEVED

The data hereafter listed indicate a rapid growth of the activities, made possible thanks to the dynamism and flexibility of the Company, that has been able to face and manage new opportunities with *absolute efficiency and at very reasonable costs*, even though facing complex and delicate problems, with the *full satisfaction of the Customer*.

CONTACT US



Legal Site:

Via Loira 1/11A
00015 Monterotondo (RM) ITALY

Administrative and Industrial Site:

Via Taragnano snc
02047 Poggio Mirteto (RI) ITALY

Ph.: +39 0765 268057

Web site: www.avioelectronics.it
www.avioelectronicsltd.com

Fax: +39 0765 26302

E-Mail: info@avioelectronics.it

E-Mail: info@avioelectronicsltd.com

Latitude 12° 38' 48" E

Longitude 42° 16' 17" N