6.8 ENGINEERING ORDER (Form QA-073/96)

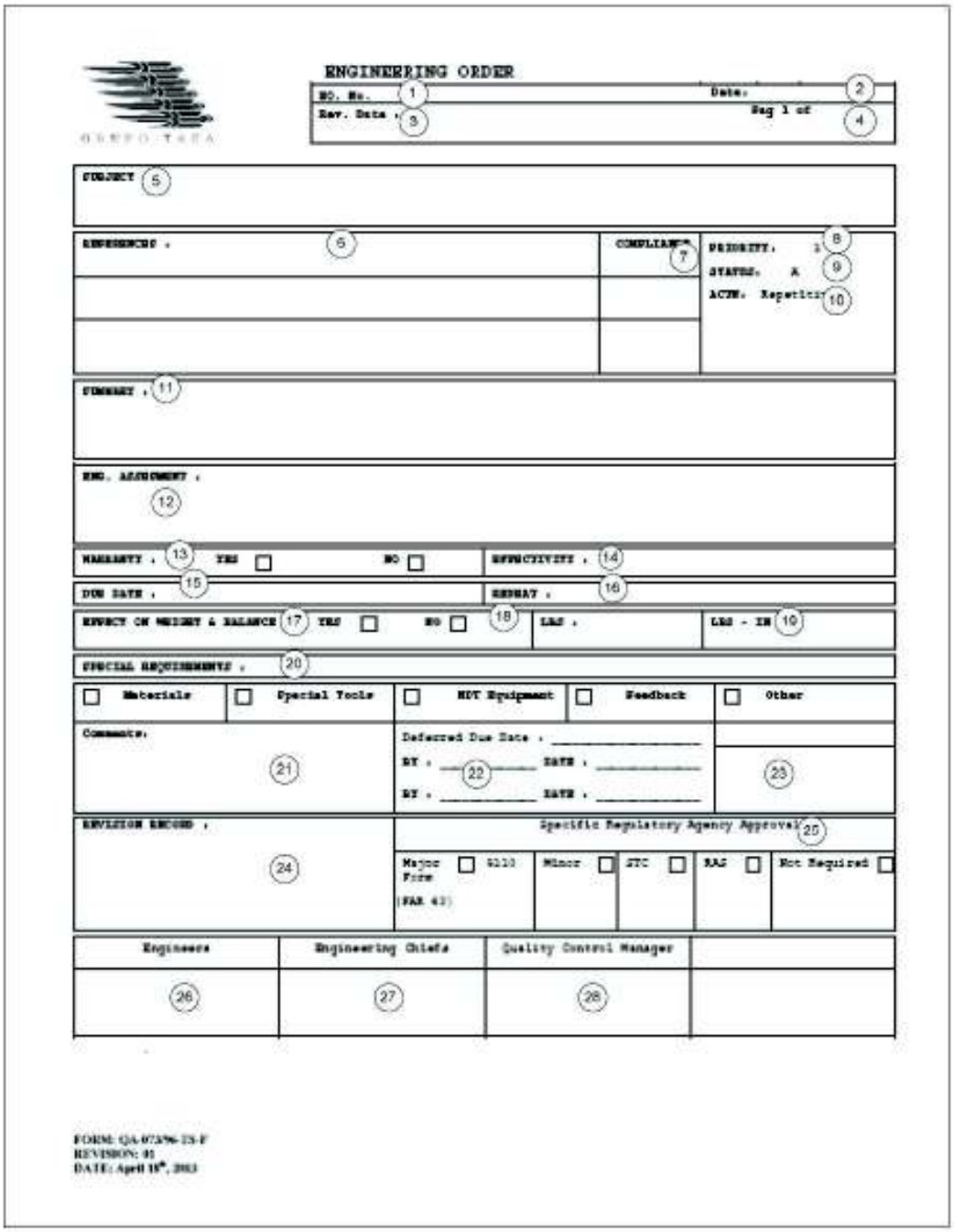
This section explains the new revision of Engineering Order form QA-073/96-TS-F Rev. 01.

NOTES:

- Engineering Orders issued before the effective date of MPM Rev. 69 using Rev. 0 of QA Form QA-073/96-TS-F remain as valid and approved documents and will not be updated unless a new revision is required for technical reasons.

- New Engineering Orders or revisions of current Engineering Orders issued after effective date of MPM Rev. 69 will be prepared in accordance with form QA-073/96-TS-F Rev 01.

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)



ENGINEERING ORDER

GRUPO TACA

EO. No. (1) Date. (2)

Rev. Date (3) Pag 1 of (4)

SUBJECT (5)

REFERENCES (6) COMPLIANCE (7) PRIORITY. (8)

STATUS. A (9)

ACTN. Repetitiv (10)

SUMMARY (11)

ENG. ASSESSMENT (12)

WARRANTY (13) YES ☐ NO ☐ EFFECTIVITY (14)

DUE DATE (15) REPEAT (16)

EFFECT ON WEIGHT & BALANCE (17) YES ☐ NO ☐ (18) LBS (19)

SPECIAL REQUIREMENTS (20)

☐ Materials	☐ Special Tools	☐ NDT Equipment	☐ Feedback	☐ Other

Comments (21)

Deferred Due Date _____

BY (22) _____ DATE _____

BY _____ DATE _____

(23)

REVISION RECORD (24)

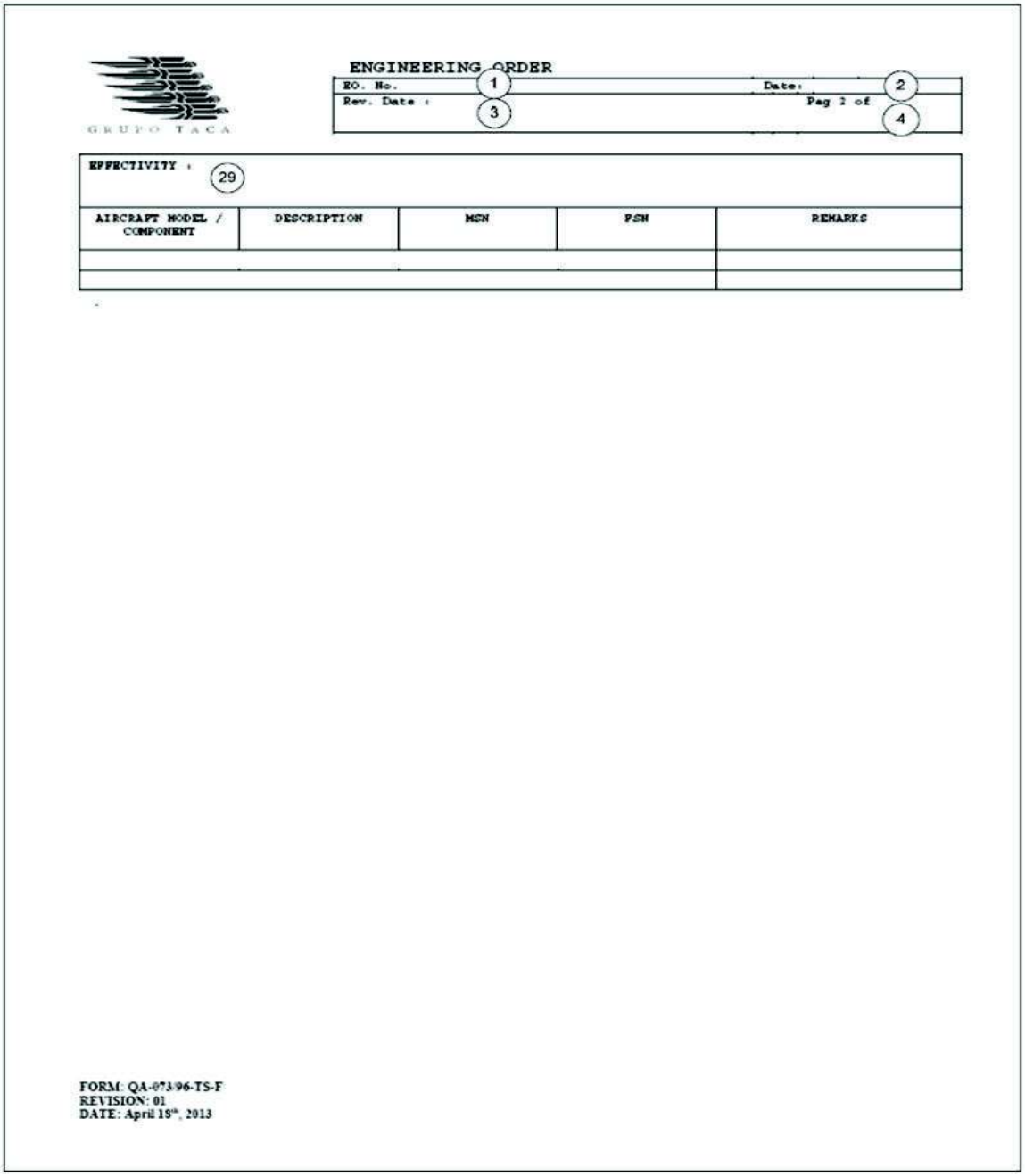
Specific Regulatory Agency Approval (25)

Major Form (FAR 43) ☐ 8110	Minor ☐	STC ☐	BAS ☐	Not Required ☐

Engineers	Engineering Chiefs	Quality Control Manager	
(26)	(27)	(28)	

FORM QA-073/96-23-F
REVISION: 01
DATE: April 15th, 2013

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)



GRUPO TACA

ENGINEERING ORDER

EO. No. (1) Date: (2)

Rev. Date : (3) Pag 1 of (4)

EFFECTIVITY : (29)

AIRCRAFT MODEL / COMPONENT	DESCRIPTION	MSN	FSN	REMARKS

FORM: QA-073/96-TS-F
REVISION: 01
DATE: April 18th, 2013

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)

GRUPO TACA

ENGINEERING ORDER

EO. No. (1) Date: (2)

Rev. Date : (3) Pag 3 of (4)

DISTRIBUTION LIST (Planning will distribute all copies) (30)

Technical Records	☒
Stockroom	☐
Reliability	☐
Line Maintenance	☐
Hangar Mintenance	☐
Flight Operations	☐
Quality Control	☐
Quality Assurance	☐
Technical Publications	☐
Warranty	☐
Other	☐

Comments : (31)

PUBLICATIONS AFFECTED (32)

Chapter	Publications

SUPPORT DOCUMENTATION (33)

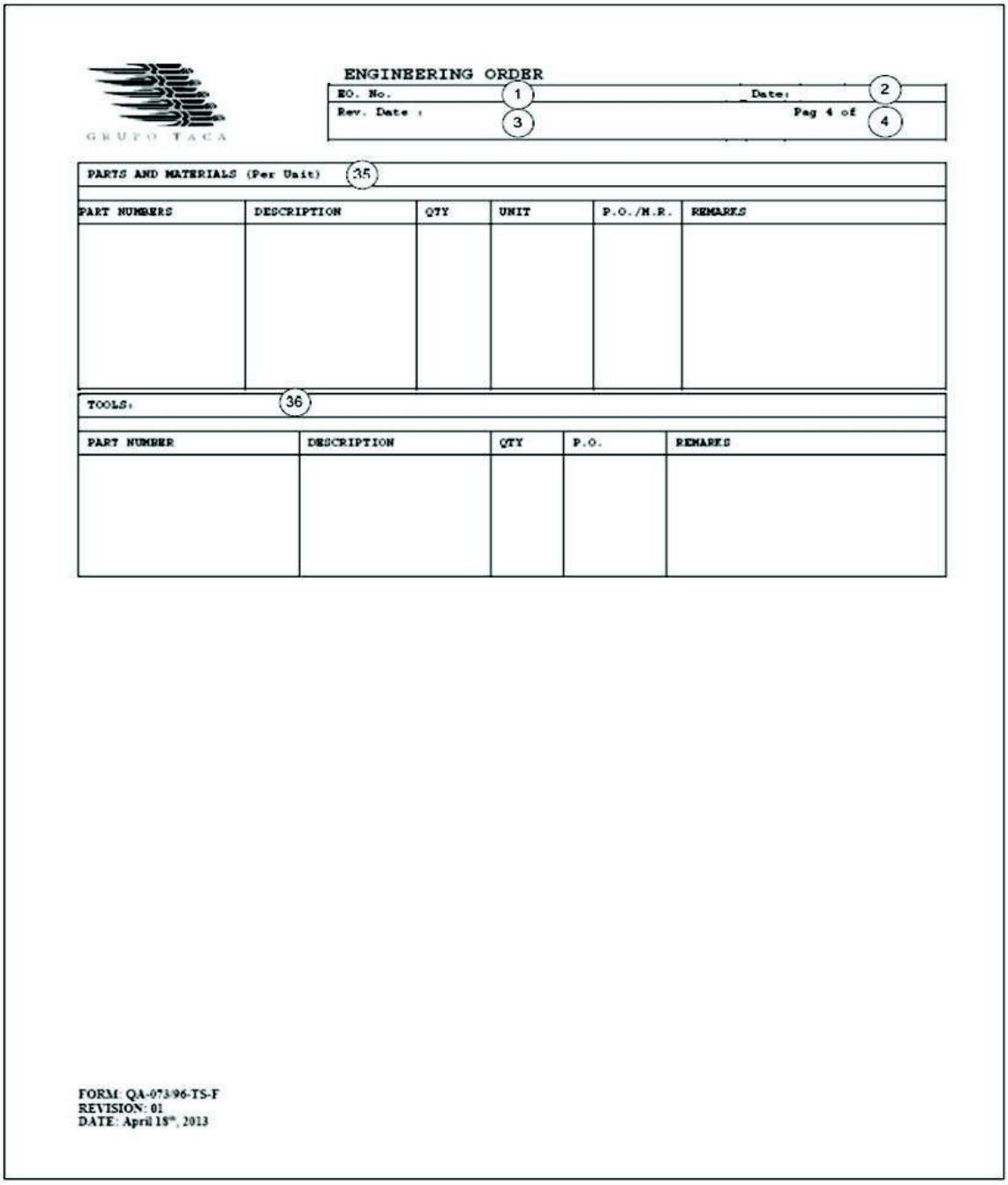
DOCUMENT NUMBER	DOCUMENT TYPE	TITLE

LABOR ESTIMATE : (34)

SKILLS :	CREW :	MAN-HRS :	ELAPSED :
TOTAL :			

FORM: QA-073/96-TS-F
REVISION: 01
DATE: April 15th, 2013

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)



GRUPO TACA

ENGINEERING ORDER

EO. No. (1) Date: (2)

Rev. Date : (3) Pag 4 of (4)

PARTS AND MATERIALS (Per Unit) (35)

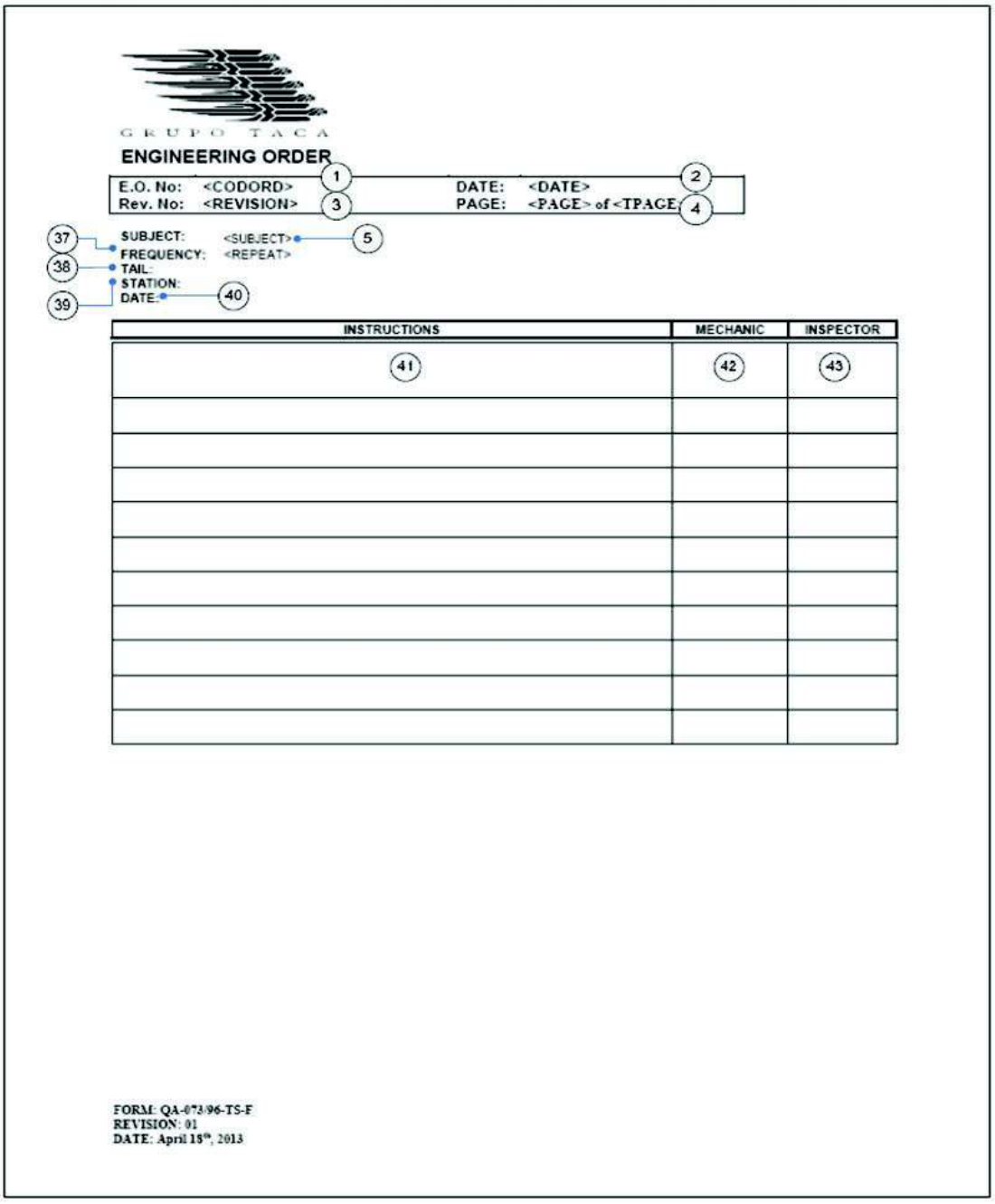
PART NUMBERS	DESCRIPTION	QTY	UNIT	P.O./M.R.	REMARKS

TOOLS: (36)

PART NUMBER	DESCRIPTION	QTY	P.O.	REMARKS

FORM: QA-073/96-TS-F
REVISION: 01
DATE: April 15th, 2013

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)



GRUPO TACA

ENGINEERING ORDER

E.O. No: <CODORD> (1) DATE: <DATE> (2)
Rev. No: <REVISION> (3) PAGE: <PAGE> of <TPAGE> (4)

(37) SUBJECT: <SUBJECT> (5)
(38) FREQUENCY: <REPEAT>
TAIL:
(39) STATION:
DATE: (40)

INSTRUCTIONS	MECHANIC	INSPECTOR
(41)	(42)	(43)

FORM: QA-073/96-TS-F
REVISION: 01
DATE: April 15th, 2013

6.8 ENGINEERING ORDER (Form QA-073/96) (Continued)

FIELD EXPLANATION:

1. EO No: Engineering Order number
   The control number has the following code:
   (Fleet)(Type)(ATA) - (Correlative)/(Year) Revision number. An example to illustrate the code would be: A320IN25-009/2003 R0

   a) Fleet: Airplane model related to the EO.
   b) Type: Type of work mentioned in this manual (IN-Inspection, MO-Modification, IV-investigation, TR-temporary repair, PR-Permanent repair, IR-Interim repair, RP-Replacement, HC-Heavy check, MF – Manufacture)
   c) ATA: The first two digits of corresponding engineering order ATA chapter.
   d) Correlative: The engineering order correlative number assigned first by fleet and then by ATA.
   e) Year: The two digits of the EO year.
   f) Revision number: Revision number of the EO.

2. Date: Original Engineering Order date

3. REV DATE: Engineering Order revision date

4. PAG 1 of XX: Correlative page number

5. SUBJECT: Engineering Order description

6. REFERENCES: Necessary documents to elaborate the Engineering Order.

7. COMPLIANCE: Describes if the referenced document has been partially, fully incorporated or not incorporated

8. PRIORITY Engineering Order priority in accordance with its importance. It will be used to determine the correct procedure for deferring the scheduled accomplishment of the EO. Determine the priority by consulting the following table and record in the space provided.

6.8 ENGINEERING ORDER (Form QA-073/96-TS-F) (Continued)

Priority Code	Description	Scheduled accomplishment can be deferred by
1	a) Critical flight safety work to be completed within a specified date, amount of flight hours or flight cycles, as per manufacturer or OEM disposition. b) Any regulatory agency document with required date of compliance. Items (a) and (b) can be deferred only if the proposed scheduled date is before the mandatory compliance date.	Maintenance Accountable Manager and Quality Control Manager.
2	Grupo TACA Maintenance Consortium Engineering highly recommended with required compliance date such as - Economic impact. - Major delay or cost reduction. - Traffic and sales effects - Component Reliability improvement on attrition.	Applicable Engineering Chief.
3	- Company convenience items. - Fleet or component standardization.	Either Maintenance Control Supervisor or Maintenance Supervisor on Duty.

Note 1: No airworthiness directives will be deferred unless specific exception from FAA (for US registered aircraft) or ANAC (for EMBRAER airplanes) has been previously granted.

Note 2: For One Time and repetitive priority 2 Engineering Orders, extensions can be processed on a case by case basis and can be granted only by the Engineering Chief; accomplishment time may be deferred until next maintenance opportunity when man-power and materials are available, or until next major check, whichever occurs later. (See annex 1 of procedure QA-073/96-TAI-TS-F, Engineering Order Guidance of Use).

6.8 ENGINEERING ORDER (Form QA-073/96-TS-F) (Continued)

9. STATUS. A status code will be provided the current EO status. The following codes will be used:

   "A": For an ACTIVE EO. If the EO requires a ONE-TIME accomplishment, once it has been accomplished in the current fleet all those that retain the "Active" Status Code will affect future units incorporated into the fleet. If the EO is of a REPETITIVE nature, all those that retain the "Active" status code will continue to affect the existing units within the current fleet, as well as any units of the same Model/Part Number as specified in the EFFECTIVITY sections that are added to the fleet in the future.

   "I": For an INACTIVE EO. EOs that shows the "Inactive" Status Code is no longer to be taken into consideration for future scheduling and accomplishment. This code can only come from a revision to the EO to leave it INACTIVE.

10. ACTN: Maintenance action to be accomplished. The ACTION code will determine whether the EO constitutes a) Terminating, b) Interim action or c) Repetitive interval inspection.

11. SUMMARY: It shall contain a brief description of the effect the modification has on the aircraft system or components affected.

12. ENG. ASSESSMENT: Statement explaining the accomplishment reasons of an Airworthiness Directive(s), Service Bulletin, structural repair or routine maintenance. Additional information may be included if it is considered necessary.

13. WARRANTY: Used for warranty claims

14. EFFECTIVITY: List of aircraft, components or appliances on which the work will be accomplished

15. DUE DATE: Last day to perform the work required by the Engineering order

16. REPEAT: Engineering Order repeat interval. The interval at which the EO must be accomplished such as, but not limited to, specific date, flight hours/cycles, letter checks, etc. If the EO is to be accomplished one time then it will be necessary to enter N/A or ONE TIME ONLY on this space. Additional information can also be included by the engineer to clarify the interval.

17. EFFECT ON WEIGHT & BALANCE: Used when an airplane alteration affect the weight and balance. A negligible weight change is any change of ten pounds or less

18. LBS: Pounds added or subtracted from the airplane

19. LB-IN: Momentum of weight change

6.8 ENGINEERING ORDER (Form QA-073/96-TS-F) (Continued)

20. SPECIAL REQUIREMENTS: One or more of the boxes may be marked; Materials, Special tools, NDT equipment, Feedback or others. When others is chosen, explain the requirements in the comments box.

21. COMMENTS: Used to add information for different areas (Maintenance, Planning, etc.) regarding any special requirement and any necessary comment regarding the Engineering order filling instructions

22. DEFERRED DUE DATE: New due date for engineering Order accomplishment. Enter the deferred due date (when applicable) in accordance the criteria established in the Priority chart (item 8).

23. AD, indicate if the mandatory document related to the EO is an AD, CN, EASA-AD or an ANAC AD

24. REVISION RECORD: Brief explanation of the purpose of the new revision

25. SPECIFIC REGULATORY AGENCY APPROVAL: Select the appropriate type of approval.

26. ENGINEER: Signature of the engineer who elaborated the Engineering Order

27. ENGINEERING CHIEF: Engineering chief or his designee signature for engineering order approval.

28. QUALITY CONTROL MANAGER: Quality Control Manager or his/her designee signature for engineering order approval is required when an engineering order is associated with an Airworthiness Directive.

29. EFFECTIVITY. Enter the appropriate information according to each header Aircraft register/Component if item (14) space is not enough. Enter the aircraft model or the component model if applicable. Description, enter the airplane register, MSN stands for the manufacturer serial number, FSN, enter the Fleet Serial Number. Remarks: enter any comment regarding the airplane or component

30. DISTRIBUTION LIST: Select all departments which have responsibility over the Engineering Order.

31. COMMENTS: Enter any comment regarding the engineering order distribution.

6.8 ENGINEERING ORDER (Form QA-073/96-TS-F) (Continued)

32. PUBLICATIONS AFFECTED: Enter all manuals and publications that may require revision as a result of the EO.

33. SUPPORT DOCUMENTATION: List all drawings, service bulletins and other documents specifically required for the accomplishment of the EO.

34. LABOR ESTIMATE: Specify next to the appropriate skill the amount of the crew required to carry out the Engineering Order, the man-hours estimated and the elapsed time.

35. PARTS AND MATERIALS: Enter the part number, description, quantity, unit, Purchase Order (if applicable) and any remark regarding the parts and materials that will be utilized to perform the work.

36. TOOLS: Enter the part number, description, quantity, Purchase Order (if applicable) and any remark regarding the parts and materials that will be utilized to perform the work.

37. FREQUENCY: Engineering Order repeat interval according to field 16.

38. TAIL: Aircraft registry number which the Engineering Order will be carried out

39. STATION: enter the station where the EO is carried out

40. DATE: Enter the date when the EO is carried out Zulu Time (i.e. 24/AUG/2014)
41. ACOMPLISHMENT INSTRUCTIONS: The required instructions to carry out the work in either the aircraft or component.

42. MECHANIC: Mechanic signature.

43. INSPECTOR: Inspector signature and Stamp required on main bases only; in outstations when necessary only signature and FAA license or FAA CRS employee number from a person acting as an inspector and appearing on Authority Delegation is required. It is required a “one time” authorization for such situation.

To see a more detailed explanation of the engineering order fields see the engineering order filling instruction guide QA-073/96-TS-F Rev. 02 (enlace.taca.com)

6.8.1 ENGINEERING ORDER (Form F-ENG-013A R0)

TACA

ENGINEERING ORDER | EO No: EO 330 22-001 | Page 1/5

Subject: UPGRADE FMS 2 HONEYWELL (P3HJ0) TO FMS 2 RELEASE 1A (P4HJ1)
Issue By: MA_AVE(AVIONICS ENGINEERING MANAGEMENT)
Original Date: 10.Mar.2014
Rev No: 00
Rev Date: 31.Dec.1971

Compliance: MANDATORY
Reason for Revision:
Repetitive: NO

Effectivity:

A/C-Type	Description	Range	Serialno From	Serialno To
332	AIRBUS A330-200/A330F	Single Range	1368	
332	AIRBUS A330-200/A330F	Single Range	1380	
332	AIRBUS A330-200/A330F	Single Range	1428	

Planning Data:

Estimated Mhr: @EO Planning.doc_header_more.est_mh@ hours
Special Req.: @EO Planning.doc_header_more.special_req_text@
Planning Rec.: @EO Planning.doc_header_more.plan_rec_text@

Modification plan	☐ On attrition	☐	Campaign	Test Flight	☐ Yes	☒	No
Controlled comp.	☐ Yes	☒	No	Power run	☐ Yes	☒	No
RII	☐ Yes	☒	No	Idle run	☐ Yes	☒	No
Trial inst.	☐ Yes	☒	No	Defueling req	☐ Yes	☒	No
				Ext. Hydr.	☐ Yes	☒	No

MAT Info

Load Change:
AC: @EO Planning.doc_header_more.loadchange_ac@
DC: @EO Planning.doc_header_more.loadchange_dc@

Parts required	☒ Yes	☐ No	
Interch. affect.	☐ Yes	☒ No	
W&B affected	☐ Yes	☒ No	Weight(in KG):@EO Planning.doc_header_more.wb_weight@ Moment: @EO Planning.doc_header_more.wb_moment@

El. Load af. ☐ Yes ☒ No

Improvement of Distribution	
Type Of Modification:	AIRCRAFT MODIFICATION
Type of Change	MAJOR CHANGE
ATA-Chapter	22 (AUTO FLIGHT GENERAL)

Approval

Prepared By	Checked by	Quality Division (If Applicable)
JOSE LUIS AVILES		
Date 10.Apr.2014	Date	Date

FORM: F-ENG-013A

6.8.1 ENGINEERING ORDER (Form F-ENG-013A R0) (Continued)

TACA **ENGINEERING ORDER** EO No: EO 330 22-001 Page 2/5

SUBJECT:

SUBJECT: UPGRADE FMS 2 HONEYWELL (P3HJ0) TO FMS 2 RELEASE 1A (P4HJ1)

TEXT:

REMARKS:

CARRY OUT TEXT:

PARTNO	DESCRIPTION	UM	QTY.REQ./REQ.
F1431413	REPLACEMENT KIT	EA	2.0/100%
FLUKE 114	MULTIMETER DIGITAL	EA	1.0/100%
PMAT2000	PMAT 2000 SPECIAL LAPTOP	EA	1.0/100%
PS4087700-904	SOFTWARE-MEDIA FMS	EA	1.0/0%
PS4087709-901	SOFTWARE-MEDIA FMS	EA	1.0/0%
PS4087714-901	SOFTWARE-MEDIA FMS	EA	1.0/0%
PS62002661-901	SOFTWARE-MEDIA	EA	1.0/0%

SIGN-OFF TREE

DOCUMENT-NUMBER	DOC-TYPE	REVISION	COMPLIANCE	ISSUED BY
57545	MOD	00	MANDATORY	
A330-22-3125	SB	02	MANDATORY	
A330-22-3154	SB	00	MANDATORY	
EO 330 22-001	EO	00	MANDATORY	

REFERENCES

DOCUMENT-NUMBER	DOC-TYPE	REVISION	ISSUED BY	STATUS

FORM: F-ENG-013A

6.8.1 ENGINEERING ORDER (Form F-ENG-013A R0) (Continued)

TACA	ENGINEERING ORDER	EO No: EO 330 22-001	Page 5/5

RECORD OF ACCOMPLISHMENT

ACCOMPLISHMENT ON

☐ A/C ☐ Engines ☐ Units	MODEL : A/C REGISTRATION : SERIAL NUMBER:	STATION:

FOUND CONDITION REPORT (Use additional sheets if necessary)

A. General Data

1. Any Discrepancy (ies) found? YES:___ NO:___. if response is YES, please provide specific Work Order (s) Number (s) as aplicable .

a)_____
b)_____
c)_____

2. Is this EO a **Major alteration / repair?** YES: ___ NO: ___. If response is YES please send a copy to the Quality Control Manager immediately after work accomplishment.

B. Accomplishment of this EO fulfill the requirements of:

C. USED CALIBRABLE TOOLS

Description	Tool P/N	Tool S/N	Calibration Date	Calibration Due Date

D. WORK RESULTS

E. REMARKS

Technician Signature:	_____	Inspector Signature (if applicable):	_____
Technician Full Name:	_____	Inspector Full Name:	_____
License No.:	_____	License No.:	_____

Completiton Date:
Day Month Year

FORM: F-ENG-013A

6.8.1 ENGINEERING ORDER (Form F-ENG-013A R0) (Continued)

FIELD	DESCRIPTION
EO No.	EO, EOD, Code
EOD-787-21-002	
Page	EO Pages
Nr.:	AMOS EO consecutive
DocNo:	EO Code, A/C TYPE, ATA, REVISION
Subject:	EO Tittle
Original Date:	EO Issue Date
Issue By:	Name of person Issuing the EO
Rev No:	Revision Number
Rev Date:	EO Revision Date
Compliance	Compliance Type
Reason for Revision:	EO reason of revision
Repetitive	This AD is Repetitive?
Effectivity:	Effectivity of EO can be A/C or Component
Planning Data:	General information for EO planning
MAT Info	General information of materials
Improvement of	EO Improvement comments
Distribution	EO distribution List
Type Of Modification	Show the AD type of modification
ATA-Chapter	ATA-Chapter associated to AD
Approval	Signatures and approval dates
Subject	Engineering Order Tittle
Text	Additional engineering order text
Remarks	Additional remarks
Carry out Text	Text about action to be performed
Part No	Required material part number

6.8.1 ENGINEERING ORDER (Form F-ENG-013A R0) (Continued)

Description	Required material description
UM	Measure unit
QTY.REQ/REQ	Material required quantity, required percentage
Sign-Off Tree	Document Tree of the Engineering Order
Document Number	Document number
Doc-Type	Document type
Revision	Revision number of the document
Compliance	Document compliance type
Issued by	Who issue the document
References	Additional documents of reference
Record Of Accomplishment	If the engineering order was performed on A/C, engine or Units. Model, A/C registration and serial number in which was accomplished the EO.
Found Condition Report	
General Data	Notify if was found any discrepancy, if yes must be mentioned the WorkOrders in which were found the discrepancies
Accomplishment of this EO Fulfill requirements of:	AD, SB, or TaskCard number which are accomplished under this EO.
Work Results	Results about the work performed.
Remarks	Additional remarks.
Signatures, names and license numbers of the technician and inspector who accomplished the EO, and the completion date.	