## **AMENDMENT**



No. : 02

Date : January 9th . 2018

Ref. DCR No.: 00306/DM9000/17

Document No.

10-DP-W602.02

Rev./Date: 2 / Sep. 29th, 2016

Page : 1 of 1

**DOCUMENT TITLE: "Preventive Maintenance"** 

This amendment forms a part of and shall be attached to the amended document

Item No.	Paragraph		Change D	escription						
01	-	Revise Form F-DI as attached (see a		ntive Maintenance l	nstruction" to be					
02	<u>.</u>	1	P602.02-05 "Mainte attached (see attac	enance Schedule a chment 2)	nd Check Sheet					
03	-	Add new Form F attached (see atta		eventive Maintenan	ce Checklist" as					
04	- Add new Form F-DP602.02-11 "Preventive Maintenance Instruction operator as attached (see attachment 4)									
		Author	Originator	Checked by	Approved by					
Orgar	nization	Q. System Doc. & Control	Prod. Facilities Maintenance	Prod. Facilities Maintenance	Detail Part Manufacturing					
Nam	ı e	M. Adhitya	Dadang	Ale Misbah	Nefota FL					
Signa	iture	May	- Muf.	liher.	Illand					
Date	2	Jan. 5. 2018	Jan. 8.2018	Jan .8.2018	Jan 9.2018					

F-DP401.01-01

# Attachment 1 of Amend 2\_10-DP-W602.02

MINISTRA RODRESIA ESIAN AEROSPACE (As)		PMI Nr.		Prev	entive :	Mainte	enance I	nstructio	on						Re	ev. 2		
		Plant Des	scription	า	:										Job Co	de : 9100		
		Codificati	ion .		:								Machin	e Status		SI	nift	
FM	- DP	Plant Loc	ation		:								"on"	"off"	1	2		3
/el	Instruction					Sub S	System						Mater	ial & Too	l required			
Level	stru	Electrical	Avda	Spindle	APC	ATC	Hydroulik	Lube &	Cooling	Pneumatic				Materia	al			
	Ë	& control	Axis	Spiriale	APC	AIC	Unit	Coolant	System	Unit	No	Name of Material	level	Qty	Name of	Material	level	Qty
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Date :	•		Date :	-		Date :	•											

F-DP602.02-01

## Attachment 2 of Amend 2\_10-DP-W602.02

Preventive Maintenance Schedule and Realization, Year 20....

Codification	Facilities	Plan		Ja	nua	ry	F	Febr	uary	/		Mar	ch			Apr	ʻil			Ma	ıy			Jun	ne		J	uly			Au	gust		S	September		0	ctol	ber		No	ove	mbe	r	D	ecei	mbe	er		Jai	n-18	8		
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		Plan					П																																															Γ
		Real					$\Box$																						П																									Γ

: Planned of *Preventive* Maintenance : Realization of Preventive Maintenance

: PM 2000 Hours ( 6 Months ) : PM 4000 Hours ( 12 Months )

### Accuracy Test

Squareness ( mm )		Value (mm)	
Squareness (IIIII)	X - Y	X - Z	Y - Z
Measured Value			
Allowance			

Parallelism between the center line	Value	(mm)
of the spindle and the Z-axial	X - Z	Y - Z
Measured Value		
Allowance		

Spindle Run Out ( mm )	Value	(mm)
Spinale Kull Out ( IIIII )	Α	В
Measured Value		
Allowance		

Approved by Spv. Maintenance	Approved by Spv. Operator
Date :	Date :
NIK :	NIK :

F-DP602.02-05

3	$\overline{\mathfrak{M}}$	PREVEN	TIVE MAINTENANCE CHECK	LIST
INDONES	RGANTARA INDONESIA SIAN AEROSPACE (IAe)	PMI Nr.	:	
	FM- DP		escription :	
No	SUB - SYSTEM		DEVICES	Level (hours)
1		1		
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		3		
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	Operator / Leader	Date	Maintenance Techniciar	n Date

F-DP602.02-10

# Attachment 4 of Amend 2\_10-DP-W602.02

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F-DP602.02-11

## **AMENDMENT**



No. : 01

Date : October 24th . 2017

Ref. DCR No.: 0180/DM9000/17

Document No.

10-DP-W602.02

Rev./Date: 2 / Sep. 29th, 2016

Page : 1 of 1

**DOCUMENT TITLE: "Preventive Maintenance"** 

This amendment forms a part of and shall be attached to the amended document

Item No.	Paragraph		Change Des	scription									
01	3.1.8	Add new Para 3.1.	8:										
			daily and weekly mobs done back to mail										
02	3.3.1.2	Revise Para 3.3.1.	2 to be as follow:										
		records (Prevent	o facility maintenand or MTBF/DT cre tive Maintenance Ins chment-2) for each k	ate, revise and struction, form	d develop PMI F-DP602.02-01,								
		maint	<ul> <li>Determination of time required for executing the maintenance job in accordance with the required PMI for each production facility.</li> </ul>										
		<ul> <li>establishment of 2000 hrs and 4000 hrs of preventive maintenance interval</li> <li>Determination of tools, spare parts, consumable material and man hour required for preventive maintenance for each production facility.</li> </ul>											
			mination of systemes to be checked or to										
			e daily and weekly r machine operators	maintenance prod	cedure and issue								
		<ul> <li>Performant done</li> </ul>	rm practice to the ope	erators to familiar	ize the jobs to be								
		Author	Originator	Checked by	Approved by								
Orgar	nization	Q. System Doc. & Control	Prod. Facilities Maintenance	Prod. Facilities Maintenance	Detail Part Manufacturing								
Nam	e	M Adhitya	Dadang	Ale Misbah	Nefota FL,								
Signa	ture	()   Print	2 HHrsf-	uni	Alle								
Date		23: 10. 2017	24.10.2017	24.10.2017.	24.10-2017								



## PREVENTIVE MAINTENANCE

Document No.

10-DP-W602.02

Revision: 2

Page : 1 of 17

## VERIFY THAT THIS IS THE CORRECT REVISION BEFORE USE

	REVISION HIS	TORY	
Rev.	Description of Change	Approved by	Effective Date
0	Initial release	Abdul Razak	01/09/2009
1	Rewrite 10-AE-W602.02 & 10-AI- W602.01, Refer to #DCR 0117/DM9000/13	Yustiono DA	Dec. 09, 2013
2	Refer to DCR No. 0170/DM9000/16, Amend 1 & 2	Yustiono DA	Sep. 29, 2016

### REFERENCE DOCUMENTS

Document Number

**Document Title** 

10-DP-P602

Production Facility Maintenance

Documents referenced in this procedure are applicable at extent specified herein.

Affected Function: Facility Maintenance (FM)

Quality Assurance (QA)

**Production Shop** 

Production Planning & Control (PPC)

Logistic

#### 1. Purpose

To describe the responsibility of Facility Maintenance (FM) personnel to execute preventive maintenance to production facilities.

	Author	Originator	Checked	Approved
Organization	Q. System Doc. & Control	Prod. Facilities Maintenance	Prod. Facilities Maintenance	Detail Part Manufacturing
Name	Wildan Moch S	Dadang	Ale Misbah	Yustiono DA
Signature		that.	cikul	yung
Date	SOP. \$6,2016	Sq. 26,7016	Sep. 23,2016.	Sep. 29,201

### 2. Scope

This Instruction applies to all key production facilities and the designated maintenance personnel who perform preventive maintenance to production facilities that affect the quality of product produced at DP (The chart of Preventive Maintenance process see Attachment -1)

#### 3. Instruction

#### 3.1 QA, Production Shop and Logistic shall

- 3.1.1 Receive approved PMS (Preventive Maintenance Schedule, form *F-DP602.02-02*, see Attachment-3) from FM (Facility Maintenance).
- 3.1.2 Give support and monitor to maintenance technician during performing PM (Preventive Maintenance).
- 3.1.3 Give required information to maintenance services function about condition of the facility since the latest PM.
- 3.1.4 Perform running test to assure that the facility is running well.
- **Note 1**: Together with affected function, prepare and set up the tools required for performing the all necessary tests, such as: fixture, work piece, NC program, NCOD.
- 3.1.5 Accept and approve the PM Job by signing MWO (Maintenance Work Order, form *F-DP602.02-03*, see attachment-4).
- 3.1.6 Maintenance planning shall install hardcopy form F-DP602.02-02 Preventive Maintenance Schedule (yearly)
- 3.1.7 Maintenance services shall update form F-DP602.02-02 Preventive Maintenance Schedule by filling the Real column after Preventive Maintenance has been done.

#### 3.2 Production Planning & Control (PC) shall

- 3.2.1 Receive approved PMS from FM
- 3.2.2 Inform to Maintenance Planning and Control (MPC) function in case the facility is not available to be interrupted for PM because of rush order/facility occupation.
- 3.2.3 Receive the PMS changes from MPC function when unscheduled maintenance occurred (i.e. Predictive Maintenance).
- 3.2.4 Review the PMS and compare with production schedule every next coming two months and inform to FM.

#### 3.3 Facility Maintenance (FM)

- 3.3.1 Maintenance Engineering (ME)
  - 3.3.1.1 Identify key production facilities to be maintained

and resources required for accomplishing the preventive maintenance policy.

Key facilities definition:

Machines or equipment which:

- have complicated design and advanced control system (CNC, PLC)
- are simple machines (without complicated control system) but have no any back-up machine (single facility)
- 3.3.1.2 Refer to facility maintenance manual and facility historical records or MTBF/DT create, revise and develop PMI (Preventive Maintenance Instruction, form *F-DP602.02-01*, see Attachment-2) for each key production facility, such as:
  - Determination of time required for executing the maintenance job in accordance with the required PMI for each production facility.
  - Determination of interval of preventive maintenance (monthly, quarterly or yearly)
  - Determination of tools, spare parts, consumable material and man hour required for preventive maintenance for each production facility.
  - Determination of system, sub-system, components and devices to be checked or tested periodically.
- 3.3.1.3 Send a copy of approved PMI to MPC function.
- 3.3.1.4 Create and Issue HE (Hasil Evaluasi, form *F-DP602.02-04*, see attachment-5) on CMMS, if resource requirement not included within PMI or PMI is not up-to-date.
- 3.3.1.5 Coordinate with Maintenance Services (MS) make an analysis or justification to the facilities in case the maintenance job is not available to be done because of production load (rush order).
- Note 2: Perform on-line checking (indirect PM) with MS function, give a written guaranty and define new due date on MWO.
- 3.3.1.6 Make an analysis and technical report about facility performance (DT/MTBF), failure analysis, replacement analysis etc, for the purpose of revision and/or development of PMI.
- 3.3.1.7 Analyze the historical record of PM for the purpose of improvement production facility.
- 3.3.1.8 Issue HE if the improvement production facility will

- be done the next need spare parts, and send to Material Planner (MP) for order execution.
- 3.3.1.9 Issue plan of improvement / re-condition and predictive maintenance schedule including required resources and send to MPC function.

### 3.3.2 Maintenance Planning and Control (MPC)

- 3.3.2.1 Make a draft annually plan of maintenance (PMS) for all key production facilities based on the time and interval required as specified in PMI.
- 3.3.2.2 Propose the draft of PMS's to Production Planning (PP) for review and approval.
- 3.3.2.3 Receive the correction from PP in case the proposed drafts of PMS's are not synchronous to the Production schedule.
- 3.3.2.4 Revise the draft of PMS's and re-send to PP for approval.
- 3.3.2.5 Distribute the approved PMS's to user (area managers), Production Control (PC) and Maintenance Services (MS) function.
- 3.3.2.6 Review PMS for next coming two months PM execution with Shop loader (PC function) to fix the next coming production and maintenance schedule.
- 3.3.2.7 Issue the MWO using CMMS application attached with PMI to MS function on first week of the month (Refer to PMS).
- 3.3.2.8 Control the realization and progress of MWO and give support to MS function in term of coordination with related function
- Notes 3: For delayed MWO, collect and re-issue to MS when the facility have been available for PM (See Para 3.3.1.5).
- 3.3.2.9 Record/entry closed MWO into the CMMS.
- 3.3.2.10 Make MR (Maintenance Report, form *F-DP602.02-07*, see Attachment-8) containing the result of maintenance such as facility down time, calibration, geometrical test, ball bar test and send to users.
- 3.3.2.11 Archive all executed PM documents per group of production facilities.

#### 3.3.3 Material Planning (MP) function

3.3.3.1 Refer to PMI, control and keep in stock the tools, spare parts and consumable material required for PM realization.

- 3.3.3.2 Identify required materials include consumable material and compare to material historical data.
- 3.3.3.3 Make a list of required consumable materials, tools and spare parts as plan and budget estimation for a year and send to Logistic.
- 3.3.3.4 In case the tools, spare parts and consumable material are not available or minimum stock level in the maintenance store, issue material request to Logistic for order, which describes:
  - Specification of the required spare parts or consumable material
  - Quantity of the required spare parts or consumable material
  - Recommended vendor/agency
  - Estimated unit price
  - When the required spare parts shall be available
- 3.3.3.5 Follow up the material request progress to Logistic until material is received.
- 3.3.3.6 Issue SPB (Surat Pengantar Barang, form *F-DP602.02-06*, see Attachment-7), send to Maintenance Store (MSt) and MS when ordered spare parts and or consumable material have been received.

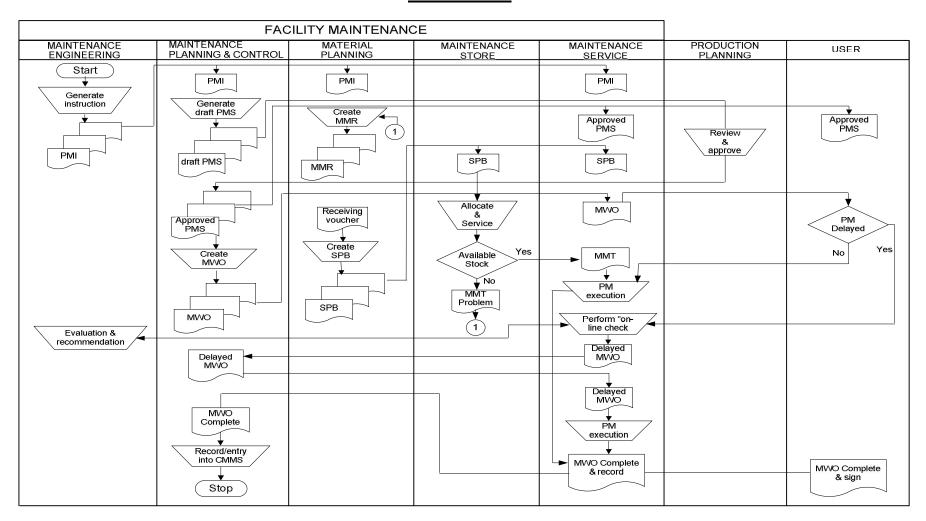
#### 3.3.4 Maintenance Store (MSt) function

- 3.3.4.1 Receive material as the SPB, labeled and put in store, write the received material on control card (Control Material, form *F-DP602.02-09*, see Attachment-10) and entry or update store/location into the CMMS as incoming transactions of inventory system.
- 3.3.4.2 Support MS function in case of taking the spare parts and consumable material by using MT (Material Ticket, form *F-DP602.02-08*, see Attachment-9) and entry into CMMS as outgoing transactions of inventory system.
- 3.3.4.3 Record the MT and forward to MPC function for issuing form Control Material, form *F-DP602.02-09* (See Attachment-10)
- 3.3.4.4 Issue MT (MT problem, see Attachment-9) by use of CMMS in case spare parts or material for PM are not available in stock (Refer to Para 3.3.3.3).
- 3.3.4.5 Hand over general tool to MS as personnel tool inventory.

#### 3.3.5 Maintenance Services (MS) function

- 3.3.5.1 Receive general tool as personal inventory from maintenance store.
- 3.3.5.2 Confirm to user to execute PM and lock out or post SERVICE sign to the facility to assure that the machine is not used during maintenance activities.
- 3.3.5.3 In case the Corrective Maintenance (CM) arise (Refer to 10-DP-W602.01) close by (prior to) the due-date of PM, perform both CM and PM on the addressed production facility (the term of ahead PM schedule).
- 3.3.5.4 In case of rush order at the due-date of PM, the PM realization may be delayed for a certain days, perform the on-line check instead (the term of behind PM schedule) (Refer to Note 2).
- 3.3.5.5 Take the spare parts, consumable material or tools from maintenance store by using MT (See Para 3.3.4.2).
- 3.3.5.6 Execute the PM Job in accordance with requested MWO and PMI.
- Note 4: Perform machine calibration (if required), and record the result on MCR form F-DP602.02-05 (see Attachment-6).
- 3.3.5.7 Create HE using CMMS to propose recommendation to ME function in term of revision and/or development of PMI.
- 3.3.5.8 Propose for predictive maintenance to ME if any symptoms of trouble found during performing PM.
- 3.3.5.9 Hand over the facility to user when the related facility is ready to use for production.
- 3.3.5.10 Record the all PM activities on the MWO, (tag/cross on PMI), MCR (if any) and entry into CMMS.

#### Attachment -1



VERIFY THAT THIS IS THE CORRECT REVISION BEFORE USE

F-DP602.02-01

Rev. 2

## Attachment -2

S	<u>(6</u>	PMI Nr.		Prev	entive	Mainter	nance Ins	struction	1							Rev. 1		
EBOGANTA	IA NOONESIA EROSPACE (IAe)	Plant D		ion	:										Job	Code : 9100		
		Codifica	ation		:								Machin	e Status		Shift		
FM		Plant Lo	ocation		:								"on"	"off"	1	2		3
Level	Instructio n					Sub Sys	stem					c	onsuma	ble mat'		required		
Le	ıstr	NC	Axis	Spindle	Axis	Inverter	Hydraulic	Lube &	Cooling	Filter &				Mate				
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Description of Entries : 1. Self Explanatory

VERIFY THAT THIS IS THE CORRECT REVISION BEFORE USE

### Attachment -3

#### PLANNED MAINTENANCE SCHEDULE MACHINERY YEARS 20....

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F-DP602.02-02

Description of Entries: 1. Self Explanatory

VERIFY THAT THIS IS THE CORRECT REVISION BEFORE USE

## Attachment -4

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PC		ested By										ON /	OFF	
by M	Refere			:										
Completed by MPC	Descr	iption of Job	)											
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S	No	Date	Nik	Start	Finish	Start	Finish	Dat	te	Nik	Start	Finish	Star	t Finish
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F	Prepare	d By	Appr Spv.Mainte	ov. By enance	Sign	Date	N	IIK	Sp	Approv. B v.Operator	y Sign	Date		NIK

F-DP602.02-03

### Attachment -5



## HASIL EVALUASI

No. Referer Kodifika Nama F		: (2) : (3) : (4) : (5)	) 			Yth :	di	(1) 
Uraia	n Masalah :	(6)						
Hasil	Evaluasi :	(7)						
Reko	mendasi :	(8)						
	laksanaan ekerjaan	: (9) : (10)		(11)	Doku	men :		(12)
No.	Stock No.	Diskripsi Kebu	tuhan Material		Jml	SoH	Sat	Keterangan
(13)	(14)		(15 )		(16)	(17)	(18)	(19)
	DIE	VALUACI	T	NIDEDIKOA				DISETHINI
	(00.)	/ALUASI	D	IPERIKSA	<u> </u>			DISETUJUI
Nama	(20 ) (23 )			(21 ) (24 )				(22 ) (25 )
Nik Tgl	(00)			(27)				(28 )
	(26)			(30)				(31 )
Ttd								

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#### 10-DP-W602.02

Rev. 2

#### Description of Entries:

- 1 Kepada Spv. Maintenance Planning & Control
- 2 Nomor Hasil Evaluasi (di create oleh system CMMS)
- 3 Nomor RFM/WO yang dipakai sebagai referensi pengajuan evaluasi.
- 4 Kodifikasi (ditampilkan oleh system CMMS setelah mengisi referensi).
- 5 Nama fasilitas (ditampilkan oleh system CMMS setelah mengisi referensi).
- 6 Uraian permasalahan yang akan dijadikan acuan untuk evaluasi.
- 7 Uraian hasil evaluasi setelah mempelajari akar permasalahan dan solusinya.
- 8 Hal hal yang harus dilakukan oleh Maintenance Planning maupun Services.
- 9 Tanggal rencana pelaksanaan pekerjaan hasil evaluasi.
- 10 Disi type perkerjaan (modifikasi, penggantian, pembuatan, perbaikan dll).
- 11 Dikerjakan sendiri oleh maintenance atau outsourching.
- 12 No Dokumen (jika dioutsourching keluar).
- 13 No.urut material yang diperlukan.
- 14 Nomor Stok yang dperlukan untuk pekerjaan hasil evaluasi.
- 15 Nama material (ditampilkan oleh system CMMS setelah mengisi nomor stock).
- 16 Jumlah material yang dibutuhkan
- 17 jumlah material yang tersedia digudang (ditampilkan oleh system CMMS setelah mengisi nomor stock).
- 18 Jenis satuan material (ditampilkan oleh system CMMS setelah mengisi nomor stock).
- 19 Keterangan status progress jika material diajukan ke bagian Pengadaan Logistik.
- 20 Nama personil yang melakukan evaluasi (ditampilkan oleh system CMMS setelah mengisi nik).
- 21 Nama Leader yang melakukan evaluasi (ditampilkan oleh system CMMS setelah mengisi nik).
- 22 Nama Supervisor yang melakukan evaluasi (ditampilkan oleh system CMMS setelah mengisi nik).
- 23 Nik personil yang melakukan evaluasi.
- 24 Nik Leader yang melakukan evaluasi.
- 25 Nik Supervisor yang melakukan evaluasi.
- 26 Tanggal dikeluarkannya hasil evaluasi oleh evaluator.
- 27 Tanggal diperiksanya hasil evaluasi oleh leader.
- 28 Tanggal disetejuinya hasil evaluasi oleh supervisor.
- 29 tanda tangan evaluator.
- 30 tanda tangan pemeriksa hasil evaluasi.
- 31 tanda tangan penyetuju hasil evaluasi.

## Attachment -6

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## Attachment -7

	TY MAINTENANC	A INDONES	NT	DIRAKTIAN NONCIZIA DIRAKTIAN NONCIZIA DIRESIAN AEROSPACE (IAe)	2	2. Yth	Kepad	
Date Sifat	:		SURAT PENGA		ANG		Ditem	pat
No.		Jenis Barang	Yang Dikirim		Banyak	knya	Ket	erangan
NIK/Na Jabata	al Diterima ama Terang n Tangan	:					Bandung, Yang Mengirim	
<u>Tembu</u> 1 2								-

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## Attachment -8

	MAINTENANCE REPORT (years)	
INDONESIAN AEROSPACE (IAe)	(Description)	
	(Graph Area)	
	(Tabal Data)	
	(Tabel Data)	
Note:		

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## Attachment -9

DIRGAI	NTARA RODRESIA N AEROSPACE (IAe)			CE MATERIAL TIC				
PLAN/	MACHINE DI	ESCRIPTION		MWO / RFM NO.	:			
				CODIFICATION NO.	:			
NO.	STOCK NO		DESCRIPTIC	)N		STORE LOC	QTY	UOM
Rema	rk:							
Reque	sted By	:	Received By		Issued	Ву		
NIK		:	NIK		NIK			
Date		:	Date		Date			

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## Attachment-10

			C	ON.	TR	OL	MATE	ERIAL					
D. NO. MATERIAL PART NUMBER	: :				EQUIV	/ALENT		QTY / FAC. LIFE TIME UOM	:				
YPE	:							MAX.	:				
PEC.	:							MIN.	:				
DATE	TRANSACTION	REF. No.	FACILITY		PLITANTI		DATE	TRANSACTION	REF. No.	FACILITY		QUANTIT	
	No.		1710.2	IN	OUT	SALDO		No.		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IN	OUT	SALD
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