## RAMCO AVIATION SOLUTION ENHANCEMENT NOTIFICATION Version 5.9.1

**MX-Execution** 

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## ramco

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## WHAT'S NEW IN AIRCRAFT?

## Calculate and view Weight & Balance of Aircraft in Desktop

Reference: APRP-1094

#### Background

When the weight of the aircraft is at or below the allowable limit and its center of gravity is within the allowable range, then the aircraft is said to be within weight and balance. But at each component replacement, the Weight and Balance may change and weighing the aircraft after each Component Replacement is not practical. This feature brings the ability to record the weight and balance details of an aircraft as a master and whenever the user is doing a component replacement, then change of the weight and balance details such as Aircraft Empty Weight, Aircraft Empty Center of Gravity, Useful Load, and Moment of Aircraft for those Component Replacements will be calculated and shown. User can also capture the Forward and Aft Limit for the Center of Gravity for the weighing configuration and compare those values with Current Empty Weight Center of Gravity.

#### **Change Details**

- Added following two new activities under the Aircraft business component;
  - Manage Weighing Conditions
  - o Manage Aircraft Weight and Balance
- Added controls in the Build Aircraft Configuration screen and Build Model Configuration screen.
- Added process parameters in **Common Master** to define UOM, to mandate Aircraft W&B Record, to mandate the Sign off details etc.

#### Common Master

• Added the following process parameters in the new Entity Type 'Weight and Balance' and Entity 'Aircraft W&B' in **Set Process Parameters** screen of **Common Master** business component.

S. No	Parameter Description	Permitted Values
1	Require confirmation of Aircraft W&B Record before	Enter "0" for '"No", "1" for "Yes"
	activation of new aircraft?	
2	Default UOM for Aircraft & Component Weight?	UOM Code defined in 'Unit of
		Measurement Administration' Business
3	UOM for Arm?	Any value
4	Default Option on launch of Manage Aircraft Weight and	Enter "0" for "View Latest A/C W&B ", "1"
	Balance?	for"Perform Aircraft Reweighing","2" for
		"Print W&B Report"
5	Default 'Auto Close Previous Record' check box on loading of	Enter "0" for 'No' and "1" for 'Yes'.
	Manage Aircraft Weight and Balance?	
6	Allow Reweigh the Aircraft Weight and Balance Record with	Enter "0" for 'No' and "1" for 'Yes'.
	previous record data?	
7	Mandate 'License #' on confirming the Aircraft W&B Record?	Enter "0" for 'No' and "1" for 'Yes'.

8	Mandate 'Sign Off Comments' on confirming the Aircraft W&B	Enter "0" for 'No' and "1" for 'Yes'.
	Record?	
9	Mandate 'Landing Weight' on confirming the Aircraft W&B	Enter "0" for 'No' and "1" for 'Yes'.
	Record?	
10	Default 'Include Zero Weight Parts' check box on loading of	Enter "0" for 'No' and "1" for 'Yes'.
	Manage Aircraft Weight and Balance?	
11	Default 'Include Previous CR Details' check box on loading of	Enter "0" for 'No' and "1" for 'Yes'.
	Manage Aircraft Weight and Balance?	
12	Load 'Exec. Doc. #' / CR # along with Direct for Source Doc.	Enter "0" for 'Both' "1" for 'Exec. Doc. #
	Type on launch of Manage Aircraft Weight and Balance	alone', "2" for 'CR # alone'

#### **Build Aircraft Configuration**

In the Build Aircraft Configuration screen, the following controls are added to define the values in Aircraft level

- 1. Datum Point
- 2. Arm
- 3. Weight Mandatory

User can mandate the position code for the weight and balance calculation by setting the value 'Yes' for Weight Mandatory column for the respective Position Code.

#### Exhibit 1: Identifies the changes in Build Aircraft Configuration screen

<b>^</b> >	Confi	guration	Management > (	Configuratio	on > Build	Aircraft Configurat	ion		<b>^</b>												l
*	B	uild Airc	raft Configura	tion												24	₽	₽ +	?	Co 💌	
													Date & Time Format			mm-dd-уууу		hh:mm:ss	s am/pi	4	
	rcraft D	etalis —	(	Aircraft Re Configuration C Aircraft Mod	:g. # W&B Class CA lel # A310	•	-	To c	define Dat		oint		Config. Statu Revision Config. Control Bas	us A # 1 sis P	ctive 💌	-				_	
– Ai	rcraft C	onfigurati	on Details	Datum F	Point Nose	of the Aircraft				人 人				ţ.	24 All	▼ Sea	rch			_	
#		Sec	Position Code	Arm	Arm UOM	Attachment Status	Position Code Status	Ba	ase Part #	Q	Position Type		Component Mandatory	Wei	ght Mandatory	Component #		Serial	#		
1		1	AWB 1	1.00	m	Attached	Active	✓ MD	DVBK200:D3273		Engine	~	No 🗸	Yes	~	C004465-2020		WBNE	W1	1.1	
2		2	AWB 2	1.00	m	Removed	Active	✓ MD	D4045C:P0582		Engine	~	No v	No	×						
3		3	AWB 3	2.00	m	Removed	Active	✓ 109	9-3501-04LH-1		Landing Gear	~	No 🗸	No							
4		4	AWB 4	1	m	Attached	Active	✓ 109	9-3501-04RH-1		Landing Gear	~	No 🗸	No		4461-2020		WB4			
5		5	AWB 5			Attached	Active	✓ 10 <sup>4</sup>	4003-101		APU	*	No 🗸	No	Tam				6		l
6							Active	~			Others	*	Yes 🗸	No	TOM	andate the	po:	JUON	IOr		l
					o defin	e Arm									weigl	nt and balai	nce	calcu	Ilati	on	

#### **Build Model Configuration**

In the Build Model Configuration screen, the following controls are added to define the values in Model level

- 1. Datum Point
- 2. Arm
- 3. Weight Mandatory

User can mandate the position code for the weight and balance calculation by setting the value 'Yes' for Weight Mandatory column for the respective Position Code.

Exhibit 2: Identifies the changes in Build Model Configuration screen

<b>^ &gt;</b>	Configu	iration Mana	agement > Conf	iguration > I	Build Model Conf	figuration	^										
*	Bui	id Model C	Configuration								•	91 92 93 94	95 🕨 🔅	: e ¢	*	? []	5 K
				REVISION #													
				Copy Optio	ns 🗌 All	CDL											
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	ingurau	on Attributes		u al													1.1
			Confi	guration Class	301		To define Da	tum Doint		ĸ	evisior	1#0					
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				Datum Point	Fixed PT		1										
- Cor	figurati	on Details —															- 1
				Se # 76 1	<b>7</b>				Э r			1 <b>41</b> 4/ All				0	
		1 - 1/1 -		0			-	~ = • •			-		•	search		Q	
#		Seq #	Position Code	Arm	Arm UOM	Position Code Status	Base Part # 🔎	Position Type		Component Mandatory	We	ight Mandatory	Deferral Type	Ca	rgo		
1		1	1	1.50	m	Active	000:99999	Others	~	Yes 🗸	Yes		<ul> <li>None</li> </ul>	No			
2						Active	1	Others	~	Yes 🗸	No		1	No			
					<u> </u>												
					To define	Arm											
					TO define							Tom	andato the r	ocitio	n for		
												1011	andate the p	JUSILIO	11101		
												weig	nt and balan	ce cal	culati	on	
		4														►	

#### Manage Weighing Conditions

The **Manage Weighing Conditions** screen is added under the business component **Aircraft**. It is a master screen to define the weighing conditions. User can define all the weighing conditions needed to be checked at the time of weighing in this screen. User can map a particular weighing condition to an Aircraft Model or Configuration class, then those weighing conditions will be considered at the time of weighing of aircraft with the respective Aircraft Model or Configuration Class only. Also user can add/delete/modify the weighing condition and it will show the user name and date and time of Created/Last Modified details.



#### Exhibit 3: Identifies the new screen Manage Weighing Conditions

<b>^</b> >	Con	figu	ration Management > Aircraft > Ma	nage Weighing Conditions		v								
*		Man	age Weighing Conditions							RAMCO	OU-ramco role 🔻	x ⊕ ⊄	<b>+</b> 1	
Search Weigh	ing C	eria – ondit	Weighing Condit	ion		Search				Status Active	•			
*	4		1 - 3/3 • • + - 🗇 🛠 🗡	7			L. <u>In</u>	5 🗴 🛛	∎ ×	• C 🗙 🖡 🛏 🖽 🎋 🗛		▼ Search		Q
#			Weighing Condition	Seq. #	Permitted Values	Mandatory		Status		Aircraft Model # ,0	Configuration C	lass		Crea
1			Scales Used?	4	Specifications of scales used	Yes	~	Active	~	A310				DMU
2			Hanger Closed?	5	Yes/No	Yes	~	Active	~	A310				DMU
3			Engine Oil level?	6	Full/Empty	Yes	~	Active	~	A310				DMU
4						Yes	~	Active	~					
			4											•
						Save								

#### Manage Aircraft Weight and Balance

The Manage Aircraft Weight and Balance screen is added under the business component Aircraft with three radio buttons View A/C Latest W&B, Perform Aircraft Reweighing, Print W&B Report (for three different contexts).

#### Perform Aircraft Reweighing

The main purpose of the Perform Aircraft Reweighing mode is to create the Aircraft Weight and Balance Record for the Aircraft Reg #. User can launch this mode with an Aircraft Reg # and create an Aircraft W&B Record # with the Reference Details as long as the Configuration of that Aircraft is in Active status. Once the Aircraft W&B Record # is confirmed, then it will be used for the weight and balance calculations.

In the Perform Aircraft Reweighing mode, the users can also Modify/Cancel/Close the Aircraft W&B Records. Following 5 tabs are available in the **Manage Aircraft Weight and Balance** screen in 'Perform A/C Reweighing' mode.

- 1. Reference Details
- 2. Weighing Conditions
- 3. Component Weighing Details
- 4. Aircraft Weighing Details
- 5. C.G Details

On creation, the record will be in **Draft** status, and on entering the values and click of Save in all the tabs, the status will change to **Fresh**. User can confirm the fresh Aircraft W&B Record after providing the details in **Sign off Details** section.



Exhibit 4: Identifies the new screen Manage Aircraft Weight and Balance with 'Perform A/C Reweighing' mode.

Manage All Clait We	ight and Balance						RAMCO OU-	amco role 👻 💢 !	⊉ 🗲 ?
Aircraft Reg # w&b		ew A/C Latest W&B 💿 Perform A/C Rewe	eighing 🔿 Print W8	&B Report	Go	Weighing Record #		Get	<ul> <li>New Record</li> </ul>
craft Details	Docur	ment Details							
raft Reg. # Aircraft b A310	Model # Aircraft ACWB-	t W & B Record # Exec. Doc. #		Empty Weigh 490.00	t 💽	Empty Weight C.G. 20.00	1 Moment 9800.00	Forward 10.00	Limit
Serial# Configu 123 Active	ration Status Created Nov 9 2	d Date and Time Task #   Task Sequ 2020 10:34AM	ience #	Useful Load	*	Landing Weight	💊 🛉 Gross Weight	Aft Limit	
figuration Class	Record Fresh	Status		510.00		500.00	1000.00	25.00	
ence Details Manage Weigh	ing Conditions Component We	eighing Details Aircraft Weighing Det	ails C.G. Details						
▲ 1 - 4/4 ▶ ₩	+ 🗅 % 🕇 🏋				) <u>∡</u> [° ב	X # # III N %	All	<ul> <li>Search</li> </ul>	Q
Weigning Condition	Perm	nitted Values	Value	Status	Error Message				
Weigh-4	Test-C	04							
Weigh-5	Test-6	6							
Weigh-7	test-0	7							
in the second se	(GC)								
4									Þ
			Save						
, ,									

#### View A/C Latest W&B

The main purpose of this mode is to see the current weight and balance details of the aircraft. User can launch the screen with the Aircraft Reg # and directly see the latest confirmed Aircraft W&B Record # details and the latest weight and balance details. In this mode, user can see the latest weight and balance details for the entered Aircraft Reg # as long as the aircraft has a confirmed Aircraft W&B Record. Along with the 5 tabs one more tab 'Component Replacements' will appear for this mode. In that tab, all the Component Replacement done after the creation of the Confirmed Aircraft W&B Record # will be visible. User can see the latest weight and balance details in the card section and can see the weight and balance changes in each Component Replacement level in the multiline of Component Replacements tab.

Exhibit 5: Identifies the new screen Manage Aircraft Weight and Balance screen with 'View A/C Latest W&B' mode.

<mark>//</mark> > co	onfigu	ration Mana	gement > Aircraft > Mai	nage Aircraft Weight a	nd Balance	^									
★ 目	Mar	nage Aircra	aft Weight and Balanc	e						RAM	CO OU-ramco role 🔻	- )¢ Ę	3 <del>(</del>	? [	0 .
			Aircraft Reg #	Q d&w		O View A/C	Latest W&B 🔿 Perform A	C Reweighing	O Print W&B R	eport	Go				
Aircraft Aircraft w&b	a <b>ft De</b> t Reg. #	tails	Aircraft Model # A310	Document Deta Aircraft W & B Reco ACWB-000250202	i <b>ls</b> rd # Exec. Doc. # 0		Empty Weight 350.00	Empty 27.46	Weight C.G.	▲ Moment 9610.00	÷	Forward L 10.00	imit		
Mfr. Se WB123 Configu CA	rial# Iration (	Class	Configuration Status Active	Created Date and T Nov 2 2020 4:21P Record Status Confirmed	me Task #   Task Sequence # M	÷	Useful Load 650.00	Landin 500.00	g Weight )	Gross Weig 1000.00	yht 🔿	Aft Limit 25.00			
Reference	e Detai	ls Manage V	Veighing Conditions Compo	nent Weighing Details	Aircraft Weighing Details C.G. Det	tails Compo	onent Replacements								_
		1 - 3/3 🕨	» T 7					• 🗙 🖡	H III 14 🥺	All	▼ Searc	ch	C	2	
#		CR #	Date & Time	Exec Doc #	Position Code	Position Co	de Status		Position Type		Display Level			¢	
1		REPL-00794:	-2 11-02-2020 04:42:02 PM	LP-000854-2020	AWB 2	Active			Engine				2		
2		REPL-007942	2-2 11-02-2020 04:49:43 PM	LP-000854-2020	AWB 3	Active			Landing Gear				3		
3		REPC-00047	9-2 11-03-2020 02:26:39 PM		AWB 1	Active			Engine				1		
		4												۶.	

#### Print W&B Report

The main purpose of this mode is to print the weight and balance report for an Aircraft Reg # against the source doc. #. User can launch this mode with the Aircraft Reg # and the Source Doc. #. For this mode, the user can see the weight and balance details against the source document. User can choose following three 'Source Doc Type' to see the Weight and Balance Details.

- 1. Direct
- 2. Exec. Doc. #
- 3. CR #

For Direct, the user can see the weight and balance details of that particular time without any Source Doc #. For Exec. Doc. #, user need to provide the Package # which is in Completed or Closed to fetch the details against that package. For CR #, User needs to provide the Component Replacement # which is in Removed or Replaced status to fetch the details against that Component Replacement.

Exhibit 5: Identifies the new screen Manage Aircraft Weight and Balance screen with 'Print W&B Report' mode.

<mark>//</mark> → 0	onfigu	ration Mana	gement > Aircraft > Ma	nage Aircraft Weight a	and Balance		•							
★ 目	Mar	nage Aircra	ift Weight and Balanc	e						RAMCO	OU-ramco role 🗨	· x4 ⊄	<del>(</del> ?	
Aircraf	t Reg #	w&b	₽ ○ View A/C Latest	W&B 🔿 Perform A/C R	eweighing 💿 Print W&B Report	Go	Source Doc. # Direct	-	Get					
Aircr	aft Det	tails		Document Det	ails		Exec. Doc. #							
Aircraft w&b	t Reg. #		Aircraft Model # A310	Aircraft W & B Rec ACWB-00025020	ord # Exec. Doc. # 20		Empty CR # 350.00	Empty V 27.46	Weight C.G.	+ Moment 9610.00	<b>(</b> )	Forward Limit 10.00		
Mfr. Se WB123	rial# 3		Configuration Status Active	Created Date and Nov 2 2020 4:21	Time Task #   Task Sequence # PM		- Eliseful Load	a Landing	Weight	A Gross Weight		Aft Limit		
Configu CA	uration (	Class		Record Status Confirmed	Source Doc. #		650.00	500.00	, magne	1000.00		25.00		
Reference	e Detai	ls Manage V 1 - 3/3 ▶	Veighing Conditions Compo	nent Weighing Details	Aircraft Weighing Details C.G. D	etails	Component Replacements	C X #	<b>₩ III 14</b> %	All	▼ Searc	:h	Q	
#		CR #	Date & Time	Exec Doc #	Position Code	Pos	ition Code Status		Position Type		Display Level			
1		REPL-007941	-2 11-02-2020 04:42:02 PM	LP-000854-2020	AWB 2	Acti	ve		Engine				2	
2		REPL-007942	-2 11-02-2020 04:49:43 PM	LP-000854-2020	AWB 3	Acti	ve		Landing Gear				3	
3		REPC-000479	9-2 11-03-2020 02:26:39 PM		AWB 1	Acti	ve		Engine				1	
		4											•	
- Sign	W8	&B Report	Equi	pment List		<b>Z</b> 1	nclude Empty Weight				Include Previou	s CR		
		Employee #	00001413 Ø		Licence #		Sign Off Date & Time 11	1-02-2020 04:	26:00 PM 🛅	Sign O	ff Comments			

Note: Ability to print the W&B report and Equipment List report will be added in a future software update.

## Aircraft Weight & Balance: Equipment List Report

Reference: APRP-1470

#### Background

Aircraft Weighing is carried out whenever an aircraft undergoes a major configuration change. Hence, it is essential to track **a**ll the components/equipment attached to the aircraft during th**e** weighing process. The **Equipment List report** will list down all the components/equipment attached to the aircraft as found at the time of weighing for regulatory purposes.

#### **Change Details**

- A new link Equipment List will be added in the Print W&B Report context of the Manage Aircraft Weight and Balance screen.
- The user can click on the new link to print the details of attached parts for the chosen Aircraft Reg. # as at the time of the last Aircraft Weighing.

The Equipment List Report will display the following details:

- Source Doc
- Source Doc Date & Time
- Printed By
- Aircraft Details
- Owner Details
- Equipment List (multiline)

The **Equipment List** multiline will display:

- Item
- Part #
- Serial #
- Mod. #
- Gross Weight
- Arm
- Item on board during weighing (If the Part was attached at the time of weighing of aircraft, then the value will show as 'Yes')
- Component Mandatory

The **Equipment List report** itself can be printed for three Source Document types as explained next:

1. Direct:

To print the currently attached part details, the user can choose **Source Doc. #** as Direct. For the Direct option, the system will print list of the parts that are attached to the aircraft at the time of generating the report. There will not be any particular source document reference, and the only reference for the document will be the Date and Time.

#### 2. Exe. Doc. #:

To print the details of the attached parts against a package #, the user can choose **Source Doc. #** as Exec. Doc. #. The system prints the list of parts that are attached against the last component replacement from the Exec. Doc. #. However, the user can print the **Equipment List report** against packages in the **Completed/Closed** status only.

#### 3. Component Replacement #:

To print the details of attached parts against specific component replacement transaction, the user can choose **Source Doc. #** as CR #. The system prints the list of parts that were attached to the aircraft as at the time of the report generation. However, the user can print the **Equipment List report** against component replacements in the **Removed/Attached** status only.

#### Note:

- 1. If a user ticks the check box **Include No Weight Parts**, then the **Equipment list report** will show the details of all the attached parts. Conversely, that is if the check box is unchecked, the weighted parts only will be retrieved in the report.
- 2. If weight details are not found for any part attached to a Weight Mandatory position, the system will validate for weight on click of the link **Equipment List**. In such a situation, the user can record weight details for the part in the Part Administration business component and then proceed to print **Equipment List report**.

#### Exhibit 1: Identifies Equipment List Report

EQUIPMENT LIST         Ramco Airways,64,Sardar Pate           Road,, 1, New Tower,         Chennai,Chennai,Tamil           Nadu,Australia         Ramco Airways,64,Sardar Pate											
	Source D	oc Direct	Sou	Irce Doc Dat	e & Time	12/8/2020 2:0	7:42 PM	Printed By	DMUSER		
	A	IRCRAFT D	ETAI	LS			OWNE	R DETAILS			
A/0 Mfr	C Reg # Wa	AB A/C 3123 Confi	Model ig. Clas	# A310 s CA		Name Address	AVEOS Ramco Airw New Tower, Nadu, Austra	ays,64,Sardar Patel Ro Chennai.,Chennai,Tam alia	ad,, 1, ii		
				W&B	EQUIP	MENT LIS	ат				
Item	Part #	Part Description		Serial #	Mod. #	Gross Weight (KG)	Arm (M)	Item on board during Weighing	Component Mandatory		
1	00A2098D -A	FUEL PUMP		26C		12.00	20.00	Yes	No		

Printed Date & Time 12/8/2020 2:07:42 PM

Page 1 of 1

## WHAT'S NEW IN MAINTENACE TASK?

# Ability to consider Part Requirements and Resource Requirements for a Task based on Customer reference

Reference: APRP-1395

#### Background

User wants to maintain the Task - Parts and Resource requirements at Customer Level. Because, for the MPD tasks the Part # used by different customers will be different. If the planner forgets to change the part # and the wrong part was used, then they have to redo. So, prevent this situation, user expects to maintain the Part requirements at Customer level. Also, the Man hour for same MPD with different customers can be different, so they expect to maintain Tasks resource requirements at customer level.

#### **Change Details**

To facilitate the consideration of Part Requirements and Resource Requirements for a Task based on Customer reference, following changes are done:

- 1. New editable column "Customer #" with help enabled is added in Part Details multiline of **Edit Part Requirements** screen. This is used to capture the Customer # against the Part # applicable to that Task.
- New editable column "Customer #" with help enabled is added in Resource Details multiline of Edit Resource / Sign-Off Requirements screen. This is applicable for all the Resource Type. This is used to capture the Customer # against the Resource # applicable to that Task.
- 3. A display only column "Customer #" is added in Parts Details multiline of **View Part Requirements** screen. The Customer # saved for corresponding Part # listed Task # will be displayed in this column.
- 4. A display only column "Customer #" is added in Resource Details multiline of **View Resource / Sign-off Requirements** screen. The Customer # saved for corresponding Resource # listed Task # will be displayed in this column.

#### Note:

- 1. For part requirements, whenever this Task is added into a package for execution for the same customer Aircraft, while executing it will add/raise MR for that Part. If the same task is added into a package for some other Aircrafts, will not add/raise MR for that Part.
- 2. For resource requirements, whenever this Task is added into a package for execution for the same customer Aircraft, entered man hrs. for the Resource is applicable. If it is for different Aircrafts, the entered man hrs. is not applicable for the Resource.

#### Exhibit 1: Identifies newly added editable column with help-on enabled in Edit Part Requirements screen

<b>^</b> >	Mainte	nance Programs > Maintenance Task >	Edit Part Requirer	nents	Ŵ						
* 1	Edi	t Part Requirements					RA	MCO OU-Ramco Role 🤜	- x4 🔒	₽ ←	? []
- Tas	k Detail	5									
		Task #	<sup>‡</sup> 1				Task Applicability Aircr	aft			
		Revision #	‡				Task Description Test	ng			
		Base Aircraft Model #	B737 MAX				Update based on	Actuals			
- Par	t Details										
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#	8	Part #	Customer #	Q	Part Description			Part Type		иом	Q
1	10	1608664-107:36659			MAIN LG LH GEAR			Component	1	EA	
2	10										
				New col	umn 'Customer #	,					
		4									•
					Edit Part	5					

Exhibit 2: Identifies newly added editable column with help-on enabled in Edit Resource/ Sign-off Requirements screen

*		Edit I	Resource / Sign-Off Requirements					RAMCO OU-Rar	nco Role 🤜	23	₽	11	÷	? 🗔
- Tas	k D	etails -												_
		Task	Applicability Aircraft					Base Aircraft Model #	8737 MA	<				
			Task # 1					Revision #						
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- Res	sour	rce Deta R	ails Resource Type  Skills   Get Details	)				Update based on Actuals	2					
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#		E P	Resource # D	Resource Description		Time UOM		Customer #	Q	Est. Tin	ne			
1		0	10	REGULATORY		Hours	~							1.00
2		13				Hours	~		~					
		4			Edit Resources			Newly adde	ed colu	mn '	Cus	tom	er	<b>#</b> ′ ▶

#### Exhibit 3: Identifies newly added display only column in View Part Requirements screen

* 8	View Part Requirements				RAMCO OU-Rar	nco Role 👻 🔀 🛱	€ ? []
- Task	Details						
	Ta	sk Applicability Aircraft		Base Aircra	aft Model # 8767-200		
		Task # 01-TASK			Revision # 1		
	т	ask Description C-CHECK for B7	67-200	Update based	on Actuals No		
- Part	Details						
	Found no rows to display!!! 🕨 🕨	7 7			井 💷 科 🐕 All	Search	Q
#	Part #	Customer #	Part Description		Part Type	UOM	Est. Quantity
		New co	olumn 'Customer #'				
	1						



#### Exhibit 4: Identifies newly added display only column in View Resource / Sign-Off Requirements screen

* [	View Resource / Sign-O	ff Requirements			RAMCO OU-Ramo	o Role 🔻 🔀 🛱	i 🗲 ? []
- Tas	k Details						
		Task Applicability Aircraft		Base Aircraft Model #	B767-200		
		Task # 01-TASK		Revision #	1		
		Task Description C-CHECK for B767-2	00	Update based on Actuals	No		
Res	ource Details						
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#	Resource Type	Resource #	Resource Description	Custo	mer #	Time UOM	Est. Time
			Found 1	no rows to display!!!	New colum	n 'Customer #'	
ew Fa	۲ المالي الم						Þ

## WHAT'S NEW IN SHOP WORK ORDER?

### Ability to set Work Status as "Tested" to issue COM Reports in Shop

Reference: APRP-704

#### Background

Ability to set Work Status as "Tested" to issue COM Reports in Shop. Issue COM screen has to list Tested as part status in Reference details cluster and the same has to be printed in Certificates.

#### **Change Details**

#### Common Master

New process parameter "Auto-check "Tested" in the Issue CoM page on selection of Work Status?" has been added under the Entity type 'Work Status' and the Entity 'All user defined entities' in the **Set Process Parameters** screen of the **Define Process Entities** activity of **Common Master** with the following functionality:

Process Parameter Value	The system defaults
0 (No) Existing Behavior	System do not default "Tested" check box on selecting the Work Status in Issue COM of Shop
1 (Yes)	System defaults "Tested" check box on selecting the Work Status in Issue COM of Shop

#### **Issue Certificates**

A new checkbox control "Tested" is added in the Reference Details section of Certificate of Maintenance tab in **Issue Certificates** screen. Based on the above process parameter, if the value is set as '1' for the entity, and the same entity is selected in Work Status dropdown of Certificate of Maintenance tab in Issue Certificates screen, the newly added checkbox "Tested" has to be auto selected and on save it will save against the Part/Part-Serial in COM. The same will get printed on the reports.

Note: On printing any of the COM reports, the work status will show as Tested in the report for the above scenario.

#### Exhibit 1: Identifies the Issue Certificates screen of Shop Work Order

삼 > Component Maintenance	e > Shop Work Order	> Issue Certificates	•						
\star 🗉 Issue Certificates						RAM	CO OU-ramco role 👻 🔀 🖨	€ ?	
Part Id Tag Certificate of Mai	ntenance Certificate	of Conformity Certificate of Calibration							-
Create Certificate	Reprint Certificate	O Replace Certificate							
		Reference Type Work Order #	▼ Refere	ence #	Q	Get Details			
Issue Details     Certificate #		Numbering Type	<b>v</b>		Certificate Status				
Printed?		# of Copies			Replaced Cert #				
Paper Doc #									
Part # / Serial #		Part Description			Qty.				
Serial #		Mfg. Serial #			Component #		New Checkbox		
Lot #		Mfg Lot #			Multiple Cores				
Mfr. Part #		Mfr. #					control added		
Reference Details									- 1
Work Order #		Order Description			Event #				
Customer #		Customer Order #	(e)		Customer PO #	4 859419			
Kei Doc #/Rev #	Work	Rev Date			Final Disposition	I-REPAIR •			
Shelf Life Exp Date	Status 12345	▼ Inspect	Repair Overhaul	Modify	Inspected/Tested	New Prototype	Tested		
Certificate Details									-
Cartifician Damas	L								
Certifying Reman	KS								
Eligibili	ity				Print Option All Items	on one Certificate	-		

## Ability display Customer Type in Shop Quick Actions Hub

Reference: APRP-1241

#### Background

Requirement of a new provision in Shop Quick Actions Hub wherein user can identify the Type of customer whether it is Domestic/Export related to the SWO.

#### **Change Details**

To facilitate the display of Customer Type in Shop Quick Actions Hub, a new control Type is introduced in the Customer Card of Shop Quick Actions Hub to show the Customer Type as defined in the Commercials master for the respective Customer # related to the Shop Work Order #.

#### Exhibit 1: Identifies the new Type control in Customer Card of Shop Quick Actions Hub

<b>^</b> >	Component Mainte	enance > Shop Work O	rder > Shop Quick Actions Hu	в	•			
* 1	Shop Quick /	Actions Hub					RAMCO OU-ramco role	
Scan	a Barcode Label (	or Enter a SWO # here	Work Order CSO0002	194-2019 I D		61% Pro	gre 👔	0
CSO In-P	000294-2019 Trogress	Work Center # 185-25	Part # CFM56-2C1:07482	Serial # / Lot # SM3	Qty 1	Job Type Engine	Customer Name Customer 8	Main Core Status Returned Request
<i>i</i> =	Component # C3225	B767 : Engine Insp & Repl Part Description CFM56-2CI ENGINE Edit WO Addi. Info Work	Customer Order # CO-00556-2020 Customer #  Type 400007  Domestic	New contr customer ty Arregister Customer PO # Po-001 View CO D	rol 'Type' introduc pe as defined for Reason Engine Inspection &	the respective Custom 2020-05-01 19:29 Replacement Edit Removal Details	te er # 05/05/020 Customer Request Date 31/05/2020 TAT Delay	Project Completion Date 66/08/2020 > Promised Delivery Date 30/05/2020 Plan Work Order
# 1 2	Task/Discrep	pancy # Des 100549-2020 Crac 00011832019 inter	cription Ik at Nozzle Exit ml-234	TS         HS         CS         ES         SS         RE           ●         ●         ○         M81         ●           ●         ●         ○         M         ●	7 Seq = Custom As set	er Type can be both D in Commercials maste	omestic or Export er of customer #	Search Q Mat. Comp. Req. Repl.

## Ability to display Returned count as well in the Shop Quick Actions hub

Reference: APRP-1242

#### Background

Only pending returned parts counts are displayed in the Count section, User requires a provision in Shop Quick Actions Hub to view returned counts of Main Core, Removed Core and Unconsumed Parts.

#### **Change Details**

To facilitate display of Returned count in **Shop Quick Actions Hub**, the following modifications have been incorporated in Ramco Aviation:

- A New Count Card 'Returned' is introduced in the count section of **Shop Quick Actions Hub**.
- The Returned count card displays counts of Main Core and associated core, Removed Core and Unconsumed Parts which have been returned.
- A click on the counts link in Returned Count card will redirect to the **Record Part Consumption & Return** screen with appropriate returned part details of that SWO # displayed in the multiline of relevant tabs which will be defaulted.

Exhibit 1: Identifies the newly added Returned card in Count Section of Shop Quick Actions Hub

	Sh	op Quick Actions Hub											RAM	ICO OU-ram	nco role 🔻	, x¢ (	4	? [
can a	Baro	code Label or Enter a SWO	# here Work Order	\$0000294-2	019	Q	RR.											
CSOOOI In-Proc	00294-: igress	-2019 Work Center # 185-25	Part # CPM56-2C1:07482		Serial SM3	# / Lot 4		Qty 1	Job Eng	Type line		Custor	mer Name mer 8		Ma IS	sin Core Sti <b>sued</b>	atus Re	quest
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с <sup>л</sup> ж	Main 1 K	Returned Core Rem.Core Uncons 1 1 4 Tesk/Discrepancy #	Parts	75	нз	a es	55	RET Seq #	Execution Comments	Discrep.	T Obs.	Reg. Mat.	X All Disassem	Assem.	Part Cons	Search Mat. Reg.	Comp. Repl.	Q
с <sup>л</sup> ж	Main 1 E	Returned	Parts	75	HS	CS ES	55 M	RET Seq # 1	Execution Comments	Discrep.	T Obs.	H III Reg. Mat.	X All Disessem	Assem.	Part Cons 0	Search Mat. Reg.	Comp. Repl.	Q
7 8	Main 1 E E E	Returned           Core         Rem.Core         Uncons           1         1         4           Task/Discrepancy #	Parts Description Interni-224 Crack at Nozzle Exit		HS	CS ES ©	55 M M&I	<i>RET Seq ≠</i> 1 7	Execution Comments	Discrep.	T Obs. Q	H III Reg. Mat.	X All Disassem P	Assem. P P	Part Cons O	Search Mat. Reg.	Comp. Repl. 2	Q
<u>7</u> ,*	Main 1 2 2 2 2 5	Returned	Parts  Perserviption  Interni 234  Crack at Nozzle Exit  Engine Oil Change	175	HS .	CS ES 0 0 0	55 M M&I SO	<i>RET Seq ≠</i> 1 7 8	Execution Comments	Discrep.	‡ Øbs. २ २	H III Reg. Mat. X X	X All Disessents 27 27 27	Assem. P P	Part Cons O O	Search Mat. Reg. 1	Comp. Repl. 2	Q
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# Ability to show percentage of completion, progress and closure readiness as icons & popups in the Shop Quick Actions hub

Reference: APRP-1473

#### Background

Shop Quick Actions Hub serves as a single screen where Supervisors can review the progress of a Shop Work Order or Mechanics can perform all the shop execution activities quickly.

For a supervisor, there requires a provision to view the completion % of a Shop Work Order, progress health and the closure readiness. This will give a whole idea if the SWO is good to close or if there are any exceptions pertaining to closure of a Shop Work Order. This will in turn help the users to close the work as per the committed TAT without any issues/delay.

#### **Change Details**

To facilitate the viewing of completion % of a Shop Work Order, progress health and the closure readiness in **Shop Quick Actions Hub**, the following modifications have been incorporated in Ramco Aviation:-

- Work Completion %: Shows the current Work Completion % of the Shop Work Order in a progress bar.
- New process parameter "Basis of Work Completion % depiction in Shop Quick Actions Hub?" introduced under the entity type Shop Work Order Type and the All user defined Shop Work Order Types excluding "--All Work Order--" in the Define Process Entities activity of Common Master.

Process Parameter	Value	Impact in Shop Quick Actions Hub
Basis of Work Completion	"0" for	The system will calculate the Work Completion % in
% depiction in Shop	Status	Shop Quick Actions Hub only based on Status of all tasks
Quick Actions Hub?	only	and discrepancies.
	114 II C	
Basis of Work Completion	"1" for	The system will calculate the Work Completion % in
% depiction in Shop	Status &	Shop Quick Actions Hub only based on both Status &
70 depiction in Shop	Status &	Shop Quick Actions hub only based on both status &
Ouick Actions Hub?	Est. Man	Est. Man Hrs. of all tasks and discrepancies.
	2000 111011	
	Hrs.'	

- Progress Health: Shows the current status of the Shop Work Order.
  - Iconic representation of depicting current Progress health of the Shop Work Order. It will be shown as Green only if the Shop Work Order is not 'On-Hold', Estimation Status is either 'Confirmed Estimates' or 'Released Estimates' or not available/required, Quotation Status is 'Approved' or not available/required and/or the Customer Order associated with the Shop Work Order is not 'On-Hold' or not available, else it will depict as Orange as a warning to the user.
  - Progress Health popup will be launched on click of the icon near the Progress Health label. This popup will show 3 progress bars: Elapsed Time (based on Current Date & Time and Planned Date & Time of the SWO), Work Completion (based on the Status of completion of all tasks & discrepancies in the SWO) and Worked Hours (based on Est. Man Hrs and Total Time booked for all the tasks & discrepancies in the SWO). It also has 4 card depictions: Exec. Doc. Hold?,

Estimated?, Quoted? and CO Hold?, which shows the current status related to the respective cards with colour coded display indicating any warning, if any.

- Closure Readiness : Shows if the Shop Work Order is good to go for a closure or not
  - Iconic representation of depicting current Closure Readiness of the Shop Work Order. It will be shown as Green only if All the tasks in the respective Shop Work Order is in 'Completed/Closed/Cancelled/Pre-Closed' status or not available, all the discrepancies in the respective Shop Work Order is in other than 'Under Resolution' status or not available, there's no pending parts for return in the respective Shop Work Order (i.e. all removed cores, main core, unconsumed parts have been returned), COM has been issued against the respective Shop Work Order if set as 'Yes', there's no pending sign off against any task/discrepancy in the respective Shop Work Order, else it will depict as Orange as a warning to the user.
  - Closure Readiness popup will be launched on click of the icon near the Closure Readiness label. This popup will show 6 card depictions: Task Completion, Discrepancy Closure, Parts Return, COM Issued, Sign Off and Clock Running card which shows the current status related to the respective cards with colour coded display indicating any warning, if any. In case there is a warning indicator of Orange, the cards will be made clickable and will let the user traverse to the following screens and default the relevant information:-
    - Task Completion : Record Shop Execution Details
    - Discrepancy Closure : Record Shop Execution Details
    - Parts Return : Record Part Consumption & Return
    - COM Issued : Issue Certificates
    - Sign Off : Record Shop Execution Details
    - Clock Running card : Record Shop Execution Details



**Exhibit 1:** New improvements in **Shop Quick Actions Hub** – Progress Bar – Indicating the percentage of Work Completion with a colored representation.

<mark>6</mark> >	Со	mpor	nent Mainte	nance > Shop Wo	ork Order > S	hop Quick Actions Hu	b						<b>^</b>											
* 1		Sho	op Quick A	ctions Hub															RAMO	CO OU-Ram	co Role 🔻	x 5	i <b>←</b> ?	6
Scan	aB	Barco	ode Label o	r Enter a SWO #	here	Work Order AWO-00	0064	I-202	0	ρ					-	1	80% Comp	leted	• Progress H	ealth 🥑	• Cl	osure Readli	nes 🕖	
AWO In-P	AWO-000064-2020 In-Progress     Work Center # YUL-100-00     Part # Dev1     Progress bar for showing SWO Completion % Correction     Customer Name     Main Core Status Issued     Request															est								
i	=	Q																						
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				Edit WO Addl. Info	Work Scoping						View (	CO Det	ails			Edit Remo	val Detai	s				Plan Wor	k Order	
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**Exhibit 2:** New improvements in **Shop Quick Actions Hub – Progress Health** Indicator where the color of the icon depicts the progress health status of the SWO.

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**Exhibit 3:** New improvements in **Shop Quick Actions Hub – Pop up** indicating the progress of a SWO and display the details of various important documents.

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*	S	hop Quick	Actions Hub							RAMCO O	J-Ramco	Role 🔻 💢	🛱 🗲 ? 🗔 🗖
Scan	a Ba	rcode Label	or Enter a SWO #	here	Work Order AWO-0000	64-2020	El an el Tilan (march)	I			0	Closure Re	eadlines 🚺
AWC In-P	)-0000 rogres	64-2020 s	Work Center # YUL-100-00	P	art # ev1	Serial # CUT1	Work Completion (24 Task	s)	45 Hrs 15 Min	27 Hrs 45 Mins Remaining 2 more to go		Main Core S Issued	Request
i	≡ C	L					Worked Hours (62 Hrs)			22 Tasks 34 Hrs to go			
<	Wor Or ter A1	k Order der Description st100 test100 mponent # 03298	Part Descript DEV1 DEV1 Edit WO Addl. Info	ion Work Scoping	Customer Order # CO-007993-2020 Customer #  Type	Con pət1 Cust Ty89	Exec. Doc. Hold ? NO	28 Hrs Estimated? Pending Estimate	Quoted ? Pending Quote	CO Hold? No	e	Project Completior 03/03/2020 Promised Delivery Plan W	Date >
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# 1 2 3		Task/Discre	pancy # 043564-2020 045425-2020 AMETER	Descrip test1 lasttask Testing	A smart popup other details lik	showi e Doc	ing the progress & CO Hold, Estin	s of SWO in a p mation, & Quot	rogress bar and tation status.	d also em. As	esem. P P	Part Mat. Cons. Req. 0	Comp. Repl.

**Exhibit 4:** New improvements in **Shop Quick Actions Hub – Closure Readiness** Indicator where the color of the icon depicts the closure readiness status of the SWO.

<b>^</b> >	Compo	nent Mainten	ance > Shop W	ork Order > S	hop Quick Actions Hu	b						^	1										
* 8	Sho	op Quick Ac	tions Hub															RAMO	O OU-Ram	co Role 🔻	⊃¢ ţ	<b>⇒ ←</b>	? 🗔
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**Exhibit 5:** New improvements in **Shop Quick Actions Hub – Closure Indicator Pop up** indicating the status of various documents and steps that are essential for closure of a SWO and display the details in a color coded manner.

<del>6</del> ,	Compo	onent Mainte	enance > Shop W	ork Order > S	hop Quick Actions	Hub					<b>`</b>										
* 1	Sh	op Quick /	Actions Hub													RAMO	O OU-Ram	co Role 🔻	× ⊑	← ? [₀	
Scan	a Barc	ode Label (	or Enter a SWO #	≠ here	Work Order	-000064-	2020	Q								10 <u>-</u> 0. 100 -01		20			
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i	≡ Q,																				
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## WHAT'S NEW IN AIRCRAFT EXECUTION HUB?

## Ability to record Skill required against a Corrective Action and validate during sign off in AME Hub

Reference: APRP-1389

#### Background

Once a discrepancy is reported, Corrective Actions which are necessary for the resolution of the discrepancy, are entered later. Skill # required to execute the Corrective Actions need to be captured along with Corrective Action recording. These Corrective Actions are then assigned to each Mechanics and Inspectors based on the Skill #. Currently there is no provision to capture Skill # at Corrective Action level in AME Hub.

#### **Change Details**

#### Work Reporting Hub

In the Discrepancy tab multiline of **Work Reporting Hub**, help enabled three new editable columns "Mech Skill #", "Insp Skill #" and "RII Skill #" alongside of sign off controls. User can enter Skill # at individual sign off requirement applicable to the corrective action or discrepancy to be signed off. The existing Skill # column, recorded Skill # will be updated for all the applicable Resource Group for the Sign off Requirement of the Corrective Action.

#### **Discrepancy Actions**

In the **Discrepancy Actions** screen, help enabled three new editable controls "Skill #", are added against each Resource Group in Sign off Details section. A new help enabled editable control "Skill #" is added in Corrective Action section to record Skill # for the entire applicable resource group against the Corrective Action. User can enter Skill # at individual sign off requirement applicable to the corrective action or discrepancy to be signed off. The Skill # at corrective action level, recorded Skill # will be updated for all the applicable Resource Group for the Sign off Requirement of the Corrective Action.

#### Manage Discrepancy

In the **Manage Discrepancy** screen, help enabled three new editable controls "Mech Skill #", "Insp Skill #" and "RII Skill #", are added against each Resource Group Sign Off requirement in Corrective Action section. User can enter Skill # at individual sign off requirement applicable to the corrective action or discrepancy to be signed off. The existing Skill # at discrepancy level, recorded Skill # will be updated for all the applicable Resource Group for the Sign off Requirement of the Corrective Action.

Exhibit 1: Identifies the Aircraft Work Reporting Hub screen



Exhibit 2: Identifies the Discrepancy Actions screen

aviation suite	🗐 💭 🛨 Aircraft Work Reporting Hub 🔻 Theme Grey 👻 Activity Search Quick Code 🌖	Data Migration User ramco role - RAMCO OU
News:	Discrepancy Actions	
Aircraft/Shop Work Management > Ai     Aircraft Work Reporting Hub	A Discrepancy # CDP-000662-2020 Description discrepancy Description discrepancy DU-ramco role *	☆☆ ぐ ?
	Corrective Actions	Simple O Detail
€- LP-000855-2020	1       try4         2       try4         3       try1         4       try2         5       try3         ✓       Mechanic         ✓       Inspector         ✓       RII         Additional       Ø         Sign Off Comments       Ø	$Q$ Sigli = $\rho$ Ar
	Prev. Comments  Action  Action  Action  Repeat? No  New Comments  Repeat? New Comments	
	Actual Joste Time     Deferral Details     Fi     Calendar Days     Fi     Fi     Calendar Days     Fi     Fi     Calendar Days     Fi     Fi     Fi     Fi     Calendar Days     Fi	Release



#### Exhibit 3: Identifies the Manage Discrepancy screen



# Ability to capture Est. Man Hrs required against a Corrective Action and auto sum at Discrepancy level in AME Hub.

Reference: APRP-1393

#### Background

In the AME hub, user can save/modify the estimated time required to complete a Discrepancy, i.e. Est. Man Hrs. value is captured at Discrepancy level. But for a discrepancy there can be multiple corrective actions associated to it. In order to record the estimated time required to complete these corrective actions, we require a new provision to capture Est. Man Hrs. value at corrective action level. All these estimated time duration of corrective action should be added and the cumulative value should be shown against the Discrepancy.

#### **Change Details**

#### Common Master

To facilitate to capture Est. man Hrs. at corrective action level, a new process parameter 'Est. Man Hrs. level for Discrepancies?' is introduced to capture the Est. Man. Hrs value at the Corrective Action level under Entity Type "Package Type" and Entity "All user defined package types including "Log Card"", in the Set Process Parameters screen of the Define Process Entities activity of Common Master with the following functionality:

Process Parameter Value	System Behavior
0 (Discrepancy level)	Existing Behavior System will capture Est. Man Hrs. at Discrepancy level.
1 (Corrective Action level)	System will capture Est. Man Hrs. at Corrective Action level.

#### **Discrepancy Action Pop-up**

In Discrepancy Action Pop-up, two new control are introduced to capture Est. Man hrs. Value at corrective action level. A new display only column Est. Man Hrs. is added next to Corrective Action column. In the Corrective Action section a new editable control is added for the user to record estimated man hour's value for the corrective action. These controls added in the pop-up will be shown only if the value for the process parameter 'Est. Man Hrs. level for Discrepancies?' is set as 1.

If the value for the process parameter 'Est. Man Hrs. level for Discrepancies?' is set as '1', the system behavior is as follows:

- 1. For a discrepancy with multiple corrective actions having Est. Man Hrs, the summation of these value will be displayed in the Discrepancy tab multiline.
- 2. User can increase the estimate value shown at the multiline for a Discrepancy, but one cannot reduce the estimate. If reduced system will validate.
- 3. Est. Man Hrs. value cannot be assigned to a discrepancy with no corrective action. System will validate.
- 4. While reporting a discrepancy, it is mandatory to enter Corrective action if Est. Man Hrs value is assigned.

#### **Discrepancy Multiline**

Depending upon the set options value the application will work as follows:

- 1. If set option set as '0', then Est. Man Hrs. will be captured and shown at Discrepancy level for a Discrepancy.
- 2. If set option set as '1', then Est. Man Hrs. will be captured at Corrective Action level for a Discrepancy.
- 3. If set option set as '1' and no Corrective Action is available then system will validate on entering Est. Man Hrs.
- 4. If set option set as '1' and Corrective Action is also given during Discrepancy reporting, then the same will be copied as the Est. Man Hrs. of that Corrective Action.
- 5. If set option is set as '1', then Est. Man Hrs. will show the summation of the Est. Man Hrs. of all Corrective Actions in the multiline.

#### Manage Discrepancy

If the process parameter value 'Est. Man Hrs. level for Discrepancies?' is set as '0', then Est. Man Hours will be captured and shown at Discrepancy level for a Discrepancy, else if it is set as '1', then Est. Man Hours will be captured at Corrective Action level for a Discrepancy.

Exhibit 1: Identifies new editable control added in Discrepancy Actions Pop-up of Aircraft Work Reporting Hub.

	CY A	Actio	ons										C 2 ?
screpand	cy #	≠ L	LC-026078	8-2020,	/2			Description test d	İp				
Correcti	ve /	Acti	on Sta	atus Cl	hange	e							
Correcti	ive	Act	ions				+	- Corrective	Action				
< +	4	4	1	-	Þ	₩	>	Corrective Action	Corrective Action 2				
#	5	2 0	Corrective	Action				Ect. Man Her	7.00		cL	ill #	0
1	•	C	orrective	Action	1			Est, Man Hrs.	7.00		SK	Sul #	Q
2		C	orrective	Action	2			Sign Off De	tails	$\sim$			
		4					•	Requirement	Mechanic Ne	wly added con	trol 'Est. M	Man Hrs.'	
									Inspector	Q	C	)	
								V	RII	0	0	2	
									Additional	~	-	)	
Sign	Off	Col	mments										
Sign	Off	Сог	mments										
Sign Prev. C	<mark>Off</mark> Comi	Con	mments						New Comme	ints			
<b>Sign</b> Prev. C	<mark>Off</mark> lomr	Con	mments its						New Comme	nts			
Prev. C	<mark>Off</mark>	Coi men	its	Ar	ction				New Comme	nts Repeat?	No		
Prev. C	Off omr	Con men	nments its	Ac	tion			T	New Comme	nts Repeat?	No 💌		
Sign ( Prev. C	Off Comr	Cor men Dat	nments its	Ac	tion:			T	New Comme	nts Repeat?	No 💌		
Sign ( Prev. C Actu	Off Comr	Con men Dat	nments its	Ac	tion:	0.00			New Comme	nts Repeat? Calendar	No	Days	
Sign ( Prev. C Actu	Off Comr	Cor men Dat	e Time- etails	Ac	tion FH FC	0.00			New Comme	nts Repeat? Calendar Other Param.	No	Days	
Sign ( Prev. C Actu	Off Comr	Con men Dat	mments its e Time- etails De	Ac	tion FH FC Type	0.00			New Comme	nts Repeat? Calendar Other Param. Deferral Reason	No 💌	Days	



Exhibit 2: Identifies new column added in Discrepancy Actions Pop-up of Aircraft Work Reporting Hub.

Discrepancy Actions					C ? X
Discrepancy # LC-026078-2020/2 Corrective Action Status Change	Description test dr	p			Î
Corrective Actions	+ Corrective /	Action			
< ** * 1 - >	Corrective Action	Corrective Action 2			
# S: Est. Man Hrs.	Est. Man Hrs.	7.00		Skill #	Q
2 • • • • • • • • • • • • • • • • • • •	7.00 Sign Off Det Requirement	tails Skill # Mechanic Skill # Additional New Comments	P       P       P       P       P		
Action Actual Date Time Deferral Details FH FC Deferral Type	0.00	De	Repeat? No Calendar Other Param. ferral Reason	Days	
Deferral Item	0		Auth Daf #		<b>•</b>

Exhibit 3: Identifies summation value displayed in the Est. Man Hrs Column of Aircraft Work Reporting Hub

3	ALL		3	Ur Re	der solutio	n <b>0</b>	Completed 0	Clos	ed	0 Other		View : 🔘	Simple 🔵 Del
-	1 - 3/	3 +	- 0	8	<b>Y</b> 7	(	人	<u>L</u> 5		** 📽 🔀 🐺 🗰 🚻	% All	▼ Search	0
#	13	Error	CS	W5	Att	Туре	Log Item #	55	ATA # O	5	Est. Man Hrs.	Skill # O	Zone #
	8		0	•			LC-026078-2020/1	e	00-00		1.00		
	5		0	•		MIREP	LC-026078-2020/2	E	00-00		22.00		
	8		0	•		MIREP	LC-026078-2020/3		00-0 'Est	. Man Hrs' column disp	laying 1.00		
÷						MIREP			the	summation value of th	ie		

### Exhibit 4: Identifies Est. Man Hrs. control in the Manage Discrepancy pop-up of Aircraft Work Reporting Hub

Parts Required?	•	Corrosion Related?	-	Major Item?				
Category	-	Repair Class.	-	Repeat?	No	-		
Skill #	Q	Zone #	Q	Work Area #		Q		
Est. Man Hrs.		Exe. Phase	-	Exec. Category		-		
Work Center #	-							
			[	Insp Sign Off Ins	sp Skill #		0	
			[	RII R	II Skill #	1	0	
Status & Sign Off —								-
Component Details -							-	-

## Ability to generate separate Return # for every Component Replacement during Removal/Replacement from Parts Hub

Reference: APRP-1488

#### Background

Whenever bulk removal/replacement is carried out in the **Parts Hub** screen, the system always creates a single Return # for all removals/replacements. This becomes an impediment, if each part has to be tracked with different Return # as each one would have to be returned to a different warehouse.

#### **Change Details**

#### **Common Master**

New process parameter "Require Return # grouping for bulk Component Removals in the Parts Hub?" has been added under the entity type 'Package Type' and the entity 'All user defined package types including "Log Card" excluding "All Packages" in the **Set Process Parameters** screen of the **Define Process Entities** activity of **Common Master** with the following functionality:

Process Parameter Value	The system generates
0 (Not Required)	Individual / unique Return # for CRs as per line item wise
1 (Required) Existing Behavior	Bulk / common Return # for all the selected CRs

#### Parts Hub

If the process parameter "Require Return # grouping for bulk Component Removals in the Parts Hub?" for the selected package type is set as '0' (Not Required) and the user tries to perform bulk component removal/ replacement transactions (selecting multiple records) in the **Parts Hub** screen and, clicks the **Change Part** button task, the system will generate unique Return # for each CR # generated combinations and update new Return # in "Latest Return" column and displays the status in **Return # Status** column of **Part Attach/Remove** tab of **Parts Hub** screen.



Note: This feature will work only in those scenarios that generate Return # for CR # transaction.



Exhibit 1: Identifies the Parts Hub screen of Aircraft Execution Hub

Aircraft Execution Hub > Parts Hub	<u>~</u>		
★ 目 Parts Hub		RAMCO	0U-ramco role 👻 🗘 🟳 🧲 ? 🗔 🗖
LP-000916-2020 Task / Discrep. ≠ Type St. Planned NSTD0014112019 :: 1 :: ▼ Non Routine Pl	atus Description lanned NST123	Rep. Time	
Part Requirements / Request Part Attach / Remove			
Image: state	0 Part Not Issued 0 Part Routed	Update the Return # and its Status in the respective column for the CR #	View : 🔿 Simple 💿 Detail
			▼ Search Q
# Erra CS Source Task/Discrep. # D Tracking	Action Object Type ate Type Late	st Return Return # Status Rem. Component # Att. Component #	Message Center
1 NSTD0014112019	1 Remove V Other Parts V MRT	-004300-2020 Confirmed COMP-001221	
2 NSTD0014112019	1 Remove V Other Parts V MRT	-004301-2020 Confirmed COMP-001222	
	Save as Draft Cha	nge Part Delete Draft Quick Links	,

### Ability to view MR coverage details in Parts Hub screen

Reference: APRP-1415

#### Background

It is necessary to know the Coverage status of the parts requested, whether it is received, shipped, In-transit, or ordered status. Currently, user has to traverse to View Coverage Summary screen to know the coverage status of the parts requested.

Hence a provision is necessary to view the coverage status in the multiline of Part Requirement / Request tab of Parts Hub screen.

#### **Change Details**

To view the coverage status details in the multiline, two new columns are introduced: Line # and Coverage Status.

Line # is a display only column which displays the corresponding Line # of the Part raised in the Material Request #. Coverage Status, a data hyperlink column, displays the Coverage status of the part requested as a link. On click of this link, screen traverses to the View Coverage Summary for the respective part in the material request.

Exhibit 1: Identifies the newly added columns in Parts Hub

Parts Hub												RAMCO OU-Ramco Ro	le = 2¢	₽ <del>•</del>
rch														
604-2019 ress	Task / Discrep. #	Туре	Status		Description			Rep. Tin	ne	E.				
equirements / Re	equest Part Attach / Ren	iove												
ALL	0 Material Not Available	0 Need Date Crossed	0 Peno Part	ding New Creation								View	<ul> <li>Simple (</li> </ul>	) Detail
1 • 1/1	• • + 🗆 % Y	7						▶ 별 ፱ ☑ ☞	🖹 ×4 🕻	X # # III 14 :	4 All	▼ Search	1	Q
Em A	15 AVL Source Task/Di	screp. # O Seq	# Tracking #	Part # 🔎	Qty	equest #	MR Status	Line Level Status	Line #	Coverage Status	Remarks	Message Center		
8	<ul> <li>DR-032373-201</li> </ul>	e ≕ 6 ≕	6	COM2	27 27	3.00 4-2020	Closed	Completely	1	Issued	_			
										New Stat	ly addec us'and '	l column 'Co Line #'	overag	e
					Course Doub Do	4					h			Þ



#### Exhibit 2: Identifies the Line # and Coverage Details multiline details defaulted in View Coverage Summary



## WHAT'S NEW IN AIRCRAFT MAINTENANCE EXECUTION?

# Ability to auto assigns Discrepancies to the reporter or the assignee of the source task

Reference: APRP-1512

#### Background

Unlike in the case of tasks, the planner cannot assign discrepancies one by one to different employees. Most of the time the discrepancies will be created at the time of inspection, and it is very difficult to assign those discrepancies to an employee at that time. So there should be a provision to auto assign the discrepancies at the time of creation itself.

#### **Change Details**

#### Common Master

A new process parameter "Auto assign Discrepancies during Discrepancy Creation?" is introduced under the Entity type 'Package Type' and the Entity 'All ', User defined package types including "Log Card" excluding "All Packages" in the **Define Process Entities** activity of **Common Master** with the following permitted values:

- 0 (No) Existing functionality, system will not assign the discrepancy.
- 1 (Assignee of parent task) Whenever a discrepancy is reported against an assigned task, then the newly reported discrepancy will also be auto assigned to the user for whom the parent task was assigned and will behave as an Assigned Discrepancy.
- 2 (Discrepancy Reporter) Whenever a discrepancy is reported then the newly reported discrepancy will also be auto assigned to the user who has reported the discrepancy and will behave as an Assigned Discrepancy.

#### **Discrepancy Creation**

Whenever a discrepancy is created inside a package, based on the process parameter, the system will auto assign the created discrepancies against the assignee of the parent task / Discrepancy Reporter. This will work in Aircraft Maintenance Execution (both in desktop and MechanicAnywhere).

## WHAT'S NEW IN WORK REPORTING HUB?

# Ability to default and set sign off requirement for Discrepancies without corrective action in AME Hub

Reference: APRP-1474

#### Background

Discrepancy can be recorded even without entering corrective action. Currently, sign off requirements for a discrepancy is identified only if corrective action is entered. Mechanics need to identify the sign off requirements while recording discrepancy even before entering corrective action.

#### **Change Details**

- To facilitate identification of sign off requirements even without entering corrective actions is achieved through an existing process parameter 'Allow Identification of Sign Off Requirement without Corrective Action for Discrepancies?' available under the entity type Package Type and the entity All user defined package types including Logcard in the Define Process Entities activity of Common Master.
- On recording a Discrepancy from Work Reporting Hub multiline or Manage Discrepancy popup, will be identified and enabled at discrepancy level based on the above set option and the sign off requirements defined for the set option 'Default Sign Off Requirements for Non-Routines?' or the user can manually also set the sign off requirements.
- The sign off requirements defaulted from the set option or manually set sign off requirements will be considered as the Sign Off requirement for the recorded discrepancy and the same sign off requirements will be defaulted for the subsequent corrective actions added.

Note:

- The defaulted sign off requirements will not be shown in 'Sign Off Status' as sign off status is updated only on addition of corrective action.
- The sign off requirements check box selection will be selected as per the sign off requirement defaulted or manually set in the respective Discrepancy Actions popup for the discrepancy.
- When a discrepancy is added from Due List, then the same sign off requirements as defaulted/ enabled in the previous package from which it was deferred will be defaulted while adding to the new package.
- The above same behavior of defaulting sign off requirement based on set option is also applicable when a discrepancy is reported from Upload Discrepancy Information screen also.



Exhibit 1: Identifies the changes in Discrepancy Action popup of Work Reporting Hub

	🗐 <sup>43</sup> 🚖 👕 Default Window 🗸	Themes 👻 🔁 Search	Quick Code
Aircraft/Shop Work Management >     Aircraft/Shop Work Management >     Work Reporting Hub     VP-002565-2017 Package Type     In-Pogress Line Package	Discrepancy Actions Discrepancy # CDP-017982-2020 Description dp Corrective Action Status Change	t⊐ 3. [x]	AMCO OU → 그≭ 다리 ← ? CG 区 E Maint. Events
Document Info      T      VP-002565-2017	Corrective Actions	Corrective Action Corrective Action  Sign Off Details  Requirement  Mechanic  Reployee  Rull  Additional	View: Simple Detail
On launch of Dis that is defaulted discrepancy or r defaulted	screpancy Actions popup, sign off requirem from the set option for that particular manually set by the user during creation wi	ave Close V Cl	DP-017951- / · · · · · · · · · · · · · · · · · ·
Work Reporting Hub -> Work Reporting Hub		Last Login on	15-4-2020 at 14:29:24 🕒 59 Minute(s) 2:35 PM

## WHAT'S NEW IN AIRCRAFT EXECUTION HUB AND MECHANICANYWHERE?

## Mandate Discrepancy Category based on set options in AME Hub and MechanicAnywhere

Reference: APRP-1397, APRP-1398

#### Background

User has categorized the defects and need to specify it against the Discrepancy while reporting and should be made mandatory for some customers. For this we have proposed to use the Discrepancy Category field for categorizing and defining the defects.

#### **Change Details**

#### Common Master

New process parameter "Mandate Discrepancy Category on Discrepancy Reporting?" has been added under the Entity Type 'Package Type' and the Entity 'All user defined package types including Log Card' in the **Set Process Parameters** screen of the **Define Process Entities** activity of **Common Master** with the following functionality:

Process Parameter Value	System Behavior
0 (No) Existing Behavior	System will not mandate discrepancy category on discrepancy reporting.
1 (Yes)	System will mandate discrepancy category on discrepancy reporting.

#### Work Reporting Hub

If the above process parameter is set as 'Yes' and user tries to report a discrepancy in Discrepancy tab multiline or in **Manage Discrepancy** screen without selecting the Category, will validate to select Category on Save or Report Discrepancy respectively.

Note: This behavior is not applicable on any means of editing the discrepancy. Even though the process parameter is set as yes and user tries to edit the discrepancy by blank out the previously saved value for a discrepancy will not validate on save or edit discrepancy.

#### MechanicAnywhere

If the above process parameter is set as 'Yes' and user tries to report a discrepancy in Create Discrepancy or in Discrepancy write-up screen without selecting the Category will validate to select Category on Add/Add & Sign Off or Create/Create & Sign Off respectively.

Note: This behavior is not applicable on any means of editing the discrepancy. Even though the process parameter is set as yes and user tries to edit the discrepancy by blank out the previously saved value for a discrepancy will not validate on save. Exhibit 1: Identifies the Aircraft Work Reporting Hub screen



Exhibit 2: Identifies the Manage Discrepancy screen

Aircraft Work R	eporting Hub				RAMCO OU-Ra	mco Role 🔻	∞ ☆ ← ?
	Manage Discrepancy				6 C ? X		
	Source Task/Discrep. #	Source Desc.					
	Type MIREP	▼ Log Item #		ATA #			
	Reported By 00041383	E P Reported Date	雦	Reported Time	O	View : (	🔿 Simple 🔘 Detail
LC-000604-2019	Description						
	Radio Comm.					- Search	Q
						E	xec. Category
	More Info     Parts Pequired?	- Corrosion Palatad?		Major Item?		×.	-
	Category	Repair Class.	-	Repeat? No	*		
	Skill #	O Zone #	Q	Work Area #	Q	~ 1-	-Repair
	Est. Man Hrs.	Exe. Phase	-	Exec. Category	-	× 1.	Panair
	Work Center #	-				· 1	Kepan
	+ Action					~ 1-	Repair
		Report Discre	10000				-
			pancy				+
	Start Clock Stop Clock	Reset	Close 🔻	Report Discrep.	Discrep. Action	Hold	Release
	Dequest Part	Change Part		Sign Off Subtacks	Quick Links		

Exhibit 3: Identifies the Create Discrepancy screen of MechanicAnywhere

Type	Log Item #	ATA#	Source Task #	Maint. Object
MIREP +		72	LOG12345	A310 I Vt-666
Problem Details				
Description	Radio Communication	Reported Date & Time	e Category	Est.Man Hours
		09-24-2020 06:34:3	3 🖏	•
		Reported By	Repair Class	
				*
Reference Details		Res	olution Details	
		Corr	ective Action	Action
Parts Required	Corrosion Related			-
Major Item	Repeat (			
$\smile$				Action Date & Time
				09-24-2020 06:34:35 PM
		Sign	Off Paquiromonto	
Attachments		🕂 🕗 Sigi	i on nequirements	
		Mec	hanic Inspector	RII

Exhibit 4: Identifies the Discrepancy Write Up screen of MechanicAnywhere

t-666 I A3	Discrepancy Write Up				0
	Type	Log Item#	ATA#	Source Task/Discrep.#	
lanage Pi	Problem Details				-84
+ Rec	Basic Additional				
iscrepan	Description		Category	Est.Man Hours	
Discrepar			Repair Classification		
	Reference Details		Resolution Details		
	Parts Required	Corrosion Related	Corrective Action	Action	a -
	Major Item	Repeat (		Action Date & Time	
		0		09-24-2020 06:31:	40
	Attachments	•	Sign Off Requirements		
			Mechanic O In	spector () RII ()	

## WHAT'S NEW IN COMPONENT MAINTENANCE PLANNING?

# Ability to provide Routing Reason & Remarks for failed records in Route U/S

Reference: APRP-1410

#### Background

When parts for which repair automation is failed are moved into an unserviceable warehouse, there can be multiple reasons associated with the part for storing it in unserviceable warehouse. Hence, a new provision is required in order to capture this reason as remarks and also to capture its future routing details. This reason can be viewed later against the respective part.

#### **Change Details**

To facilitate the capture of remarks while movement of parts is initiated, the following changes have been incorporated in **Route Unserviceable Components / Parts** screen:

- A new check box 'Show only failed Repair Automation records' is provided to show only the failed records in the Multiline.
- Two columns 'Routing Remarks' and 'Routing Reason' are added in Unserviceable Components / Parts multiline of Route Unserviceable Components / Parts screen.
- User can select required Routing Reason and enter Routing Remarks against the Part for which the Repair Automation has failed in **Route Unserviceable Components / Parts** screen and this data entered will be captured and shown against the respective part on click of '**Update Routing Info'** button control.

Note: The visibility of newly added Routing Remarks, Routing Reason column and Update Routing Info button control depends upon the Show only failed Repair Automation records checkbox. These Controls will be present only if the Check box is selected. Another point to note is that the 'Update Routing Info' button will capture only the data selected / entered in the Routing Remarks and Routing Reason columns.

## ramco

### Exhibit 1: Identifies the newly added controls in Route Unserviceable Components / Parts

<b>^</b>	Compo	nent Maintenanœ	e > Comp	onent Maintenance P	anning > Route	Unserviceable Components /	Parts	^						
Route Unserviceable Components / Parts      Part # EXO-PO-2205020-1      Part Description      SO5 Disposition      Prime Part #      Primary Model #      Possession Status      V      Ownership			Part Description Display Options Primary Model # Ownershin	t Description New 'Show only failed Repair play Options Automation Records' Check Box Object Type Tary Model			×4 🔒 •	₽ ←	? [8					
- Uns	erviceal	Material	Controller Parts	2			Auto Evaluation?	Yes-With Failure 💌			Show only failed R	ipair Autor	nation rec	ords
44 4 # 1 2 3 4 5 6 7 8 9 10		1 - 9/9 * ** Owning Age	+ □ 3 ency #	Stock Status Stock Status Accepted Accepted Accepted Accepted Accepted Accepted Accepted Accepted Accepted		Owning Agency Name	Newly Reason Pinte I Pinte I Pinte I Pinte I	added columns 'Rou n' and 'Routing Rem. netter njecter njector njector	СомР-000880 СомР-000880 СомР-000880 СомР-000881 сомР-000881	A III T+ X AII Routing Reason A FAIL	Nouth         test            Part Fi	Search ng Remark	s Failure, w	Q /ill be
10 — Cus	t. Order	Oetails     Custo     Internal Repair	mer PO #		External Repair	Ra Evaluate	epair Process Code / Get Contract Move Parts	· · · ·	Update Routing Info	wly added b odate Routin	utton g Info'	▼ Vendor		Þ

## WHAT'S NEW IN AUDIT MANAGEMENT REPORTS?

### Ability to print a report to identify completed/upcoming audit reports

Reference: APRP-1330

#### Background

Ability to generate report for which audits have been completed, which should show the status of all the findings. These audits will be setup, have a schedule built, have action conducted upon them, and be completed. Some audits may have a follow up schedule and also an ability to view the upcoming audits.

#### **Change Details**

#### Audit Management Reports

A new activity **Generate Summary/Upcoming Audit Report** will be added under **Audit Management Reports** component. On launching the new activity, a new UI **Generate Summary/Upcoming Audit Report** will be launched for generating the two new reports **Generate Audit Summary Report** and **Generate Upcoming Audit Report** with some filter criteria to be provided for launching the new reports.

#### Generate Summary/Upcoming Audit Report

This new UI has the provision to enter/choose some filter criteria to launch the reports. This screen will have provision to select 'Audit Type', Category and Status for the reports. User can enter Entity Type, Entity Name and the Dates (From and To Date) for the reports to be launched.

Two new links "Generate Audit Summary Report" and "Generate Upcoming Audit Report" to launch the reports will available in the bottom of the entry point screen.

#### Audit Summary Report

Audit Summary Report launches with the respective Customer's Logo and Address for which we are generating the report, in the left and right side of the report. And the report name "Audit Summary Report" will be printed in the center of the report at header. This report will fetch and display all the Audit Report # with the count of findings, observations and objective evidence recorded against it with all information like Audit Type, Category, Entity and Entity Name of the Audit Report with its next due and Audit Start Date in the report. For the Audit Report which do not have Audit Schedules defined with the Next Due, will display Blank against the Audit Report #. If the Audit Report # do not have any findings or observations or objective evidence recorded against the Audit Report # will display Blank against the respective column. Refer to the exhibit for the sample report and the columns involved in it.

#### **Upcoming Audit Report**

Upcoming Audit Report launches with the respective Customer's Logo and Address for which we are generating the report, in the left and right side of the report. And the report name "Upcoming Audit Report" will be printed in the center of the report at header. This report will fetch and display all the Audit Schedule # for which the Audit Report # has not been generated yet for the provided filter criteria. Refer to the exhibit for the sample report and

the columns involved in it.

Exhibit 1: Identifies the Generate Summary/Upcoming Audit Report

🖌 > Quality Audit Management > Audit Management Reports > Generate Summary/Upcoming Audit Report ^										
🗯 🗏 Generate Summary/Upcoming Audit R	Generate Summary/Upcoming Audit Report									
	Date Format M-DD-YYYY									
Report Criteria										
Audit Type	-	Entity								
Entity Name		Category	-							
Findings	-	Closed	-							
From Date	<b></b>	To Date								
	Generate Audit Summ	y Report Generate Upcoming Audit Report								

#### Exhibit 2: Identifies the Sample Audit Summary Report

ľ	Audit Summary Report							RAMCO SYSTEMS LIMITED 64 SARDAR PATEL ROAD, TARMANI, CHENNAI TAMILNADU India				
S.N	. Entity	Entity Name	Audit Type	Category	Audit Report #	Date of Audit	No. of Findings	No. of Observations	Objective Evidence	Status	Next Audit Due	Higher Risk?
1	101	Green Mountain	Supplier	Critical	AR-0001-2019	12-Oct-19	5	2	2	Pending Action	30-Mar-20	
2	105	YULCS	Warehouse	Non-Critical	AR-0003-2019	15-Oct-19	3	3	1	Initiated	30-Mar-20	
3	109	Engine	Work Center	Non-Critical	AR-0006-2019	10-Nov-19	N/A	1	N/A	Closed	10-Apr-20	
4	113	Richard	Employee	Non-Critical	AR-0008-2019	11-Dec-19	N/A	N/A	N/A	Pending Action	11-May-20	
5	116	Shop	Others	Critical	AR-0010-2019	22-Dec-19	N/A	N/A	N/A	Initiated	22-May-20	

Exhibit 3: Identifies the Sample Upcoming Audit Report

ra	m	CO	Upcoming Audit F	Report
S.No.	Entity	Entity Name	Audit Type	Audit Sched

RAMCO SYSTEMS LIMITED 64 SARDAR PATEL ROAD, TARMANI. CHENNAI TAMILNADU India

S.No.	Entity	Entity Name	Audit Type	Audit Schedule #	Audit Schedule Date
1	101	Green Mountain	Supplier	AR-0001-2019	12-Nov-20
2	105	YULCS	Warehouse	AR-0003-2019	17-Nov-20
3	109	Engine	Work Center	AR-0006-2019	22-Nov-20
4	113	Richard	Employee	AR-0008-2019	25-Nov-20
5	116	Shop	Others	AR-0010-2019	30-Nov-20

## ramco

#### **Corporate Office and R&D Center**

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