

Reg: **PH-BQP**Check: **C05**Date: **04-DEC-2016 11:53 UTC**Visit No.: **WO - 11224335**

To: Aircraft Mechanics & Aircraft Ground Engineers / Project Supervisors (AMO or equivalent)

Subject: **ETOPS Significant Worklist (ESW)**

Introduction:

The ESW has been developed by KLM to provide a complete overview of any (potential) maintenance violations caused by routine and non-routine maintenance tasks on multiple ETOPS systems during a planned maintenance visit and to help the ground engineer to take the appropriate maintenance actions. Ref KLM Etops Exposition Manual Chapter 5.1.

Requirements:

The KLM Production Support Group will include all ROUTINE ETOPS Maintenance Tasks. During the maintenance the ground engineer(s) will add all NON ROUTINE ETOPS Maintenance Task(s) on the ESW.

The ESW is a control-sheet. As mentioned the ESW show all NON-Routine and Routine ETOPS maintenance tasks resulting in (potential) maintenance violations. **The basic principle is that different mechanics or ground engineers perform identical maintenance tasks on multiple ETOPS systems.** Furthermore the Maintenance Violation Decision procedure per A330 AMM 05-91-10 or per B777 / B787 AMM 20-10-00 must be followed.

***Maintenance violations may affect the ETOPS-status of the aircraft!***

The mechanic or ground engineer who actually performs the ETOPS Routine or Non-routine Maintenance Task must sign the 'Performed-by' -box on the ESW. By doing this the ESW identifies during and at the end of the maintenance visit all maintenance violations. This allows the ground engineer(s) or Project Supervisor(s) to control that different ETOPS qualified persons perform the multiple tasks (if possible) and to verify that the appropriate ETOPS Maintenance Violation procedure has been performed.

**CAUTION:** **The ESW must show the individual mechanics that have worked on the systems. It is not allowed to stamp the 'performed by' boxes on behalf of another mechanic or ground engineer who did the actual work!**

The original ESW will be archived as part of the maintenance package.

Thanks for your cooperation

Production Support Group Line & Base Maintenance

Reg: **PH-BQP**

Check: **C05**

Date: **04-DEC-2016 11:53 UTC**

Visit No.: **WO - 11224335**

24-31	BATTERIES			
Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By
96	TRFX90044SNH	AMMPRF-117-1007-C (Connect the main battery power)	117 118	00033647
116	TRFX90044SG0	AMMPRF-162-1000-C (Connect the APU battery power)	162	00011206

28-22	ENGINE FUEL FEED SYSTEM			
Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By
307	T0035U6U	AMPRS-430-1001 (RST FUEL FEED MANIFOLD O-RINGS REPLACEMENT. REPLACE O-RINGS OF FUEL FEED LINE COUPLINGS IN LEFT STRUT)	430	00035139 00037406 00089286

In case of identical maintenance actions to multiple systems per ATA chapter, involving physical interference with the integrity of the system, the Maintenance Violation procedure per A330 AMM Chapter 05-91-10 or B777 / B787 AMM Chapter 20-10-00 must always be performed.

These identical ETOPS maintenance actions must always be performed by different ETOPS Qualified Mechanics and/or Ground Engineers.

Ref. KLM ETOPS Exposition Manual Paragraph 5.1.

Reg: **PH-BQP**

Check: **C05**

Date: **04-DEC-2016 11:53 UTC**

Visit No.: **WO - 11224335**

29-11	MAIN HYDRAULIC SYSTEMS			
Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By
119	TRFX9004SRKH	AMMPRF-197-1002-C (Reinstall filter element in each ADP press. and case drain filter in CTR hydraulic system.)	197	00037406
310	TRFX90041VSU	AMPSV-144-4001 (SVC Fluid sample of center hydraulic reservoir.)	144	00027858
313	TRFX90041VU4	AMPSV-434-1001 (SVC Fluid sample of Left hydraulic reservoir.)	434	00028394
314	TRFX90041VSW	AMPSV-444-1001 (SVC Fluid sample of Right hydraulic reservoir.)	444	00009380
701	TRFX90042G9Y	MPDRS-144-4001 (RST CENTER HYD RESERVOIR PRESSURIZATION MODULE : CLEAN AIR FILTER OF RESERVOIR PRESSURIZATION MODULE IN MAIN CENTER HYDRAULIC SYSTEM.)	144	00032250
706	TRFX90042HNJ	MPDRS-434-1001 (RS LEFT HYD RESERVOIR PRESSURIZATION MODULE : CLEAN AIR FILTER OF RESERVOIR PRESSURIZATION MODULE IN MAIN LEFT HYDRAULIC SYSTEM.)	434	00009807 00089286
707	TRFX9004298S	MPDRS-444-1001 (RST RIGHT HYD RESERVOIR PRESSURIZATION MODULE : CLEAN AIR FILTER OF RESERVOIR PRESSURIZATION MODULE IN MAIN RIGHT HYDRAULIC SYSTEM.)	444	00027861

In case of identical maintenance actions to multiple systems per ATA chapter, involving physical interference with the integrity of the system, the Maintenance Violation procedure per A330 AMM Chapter 05-91-10 or B777 / B787 AMM Chapter 20-10-00 must always be performed.

These identical ETOPS maintenance actions must always be performed by different ETOPS Qualified Mechanics and/or Ground Engineers.

Ref. KLM ETOPS Exposition Manual Paragraph 5.1.

Reg: **PH-BQP**

Check: **C05**

Date: **04-DEC-2016 11:53 UTC**

Visit No.: **WO - 11224335**

30-31	PITOT PROBE HEAT			
Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By
764	TRFX9004M0C6	SB-MO-117-1004 (GE Aviation SB 5000ELM-46-005 par. 2.A. step 1 - 20)	117	00078560
765	TRFX9004M0C9	SB-MO-117-1005 (GE Aviation SB 5000ELM-46-005 par. 2.A. step 21 - 48)	117	00028309 00078560
766	TRFX9004M0CC	SB-MO-117-1006 (GE Aviation SB 5000ELM-46-005 par. 2.A. step 49 - 66)	117	00011206 00028309 00078560
767	TRFX9004M0CE	SB-MO-117-1007 (GE Aviation SB 5000ELM-46-005 par. 2.A. step 67 Continuity Checks)	117	00028309
768	TRFX9004M0CH	SB-MO-117-1008 (GE Aviation SB 5000ELM-46-005 par. 2.A. step 68 - 80)	117	00028309
771	TRFX9004M0CL	SB-MO-118-1004 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 1 - 20)	118	00028574
772	TRFX9004M0CP	SB-MO-118-1005 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 21 - 40)	118	00028574 00032167
773	TRFX9004M0CQ	SB-MO-118-1006 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 41 - 58)	118	00028574 00032167
774	TRFX9004M0CT	SB-MO-118-1007 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 61 - 79)	118	00028574 00032167
775	TRFX9004M0CV	SB-MO-118-1008 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 80 - 96)	118	00032167 00045393
776	TRFX9004M0CX	SB-MO-118-1009 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 97 - 99 Continuity Checks)	118	00028574
777	TRFX9004M0CZ	SB-MO-118-1010 (GE Aviation SB 6000ELM-46-007 par. 2.A. step 99 - 116)	118	00028574

In case of identical maintenance actions to multiple systems per ATA chapter, involving physical interference with the integrity of the system, the Maintenance Violation procedure per A330 AMM Chapter 05-91-10 or B777 / B787 AMM Chapter 20-10-00 must always be performed.

These identical ETOPS maintenance actions must always be performed by different ETOPS Qualified Mechanics and/or Ground Engineers.

Ref. KLM ETOPS Exposition Manual Paragraph 5.1.

Reg: **PH-BQP**

 Check: **C05**

 Date: **04-DEC-2016 11:53 UTC**

 Visit No.: **WO - 11224335**

<b>777</b>	<b>Boeing 777</b>			
<b>Sequence Number</b>	<b>Jobcard Barcode</b>	<b>Task Description</b>	<b>Zone</b>	<b>Performed By</b>
892	TRFX9005E1EC	CLOSE-MPC-B777-ZONE 410 (MPC-B777-ZONE 410 (Left Powerplant))	410	00077267
906	TRFX9005E1F0	CLOSE-MPC-B777-ZONE 420 (MPC-B777-ZONE 420 (Right Powerplant))	420	00025646

<b>Sequence Number</b>	<b>Jobcard Barcode</b>	<b>Task Description</b>	<b>Zone</b>	<b>Performed By</b>

In case of identical maintenance actions to multiple systems per ATA chapter, involving physical interference with the integrity of the system, the Maintenance Violation procedure per A330 AMM Chapter 05-91-10 or B777 / B787 AMM Chapter 20-10-00 must always be performed.

These identical ETOPS maintenance actions must always be performed by different ETOPS Qualified Mechanics and/or Ground Engineers.

Ref. KLM ETOPS Exposition Manual Paragraph 5.1.

Reg: **PH-BQP**

Check: **C05**

Date: **04-DEC-2016 11:53 UTC**

Visit No.: **WO - 11224335**

Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By

Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By

Sequence Number	Jobcard Barcode	Task Description	Zone	Performed By

In case of identical maintenance actions to multiple systems per ATA chapter, involving physical interference with the integrity of the system, the Maintenance Violation procedure per A330 AMM Chapter 05-91-10 or B777 / B787 AMM Chapter 20-10-00 must always be performed.

These identical ETOPS maintenance actions must always be performed by different ETOPS Qualified Mechanics and/or Ground Engineers.

Ref. KLM ETOPS Exposition Manual Paragraph 5.1.