Hopendue 1.

QUALITY SYSTEM COMPLIANCE VENDOR / SUPPLIER AUDIT REPORT

- CONFIDENTIAL -

Qantas Airways Limited

Qantas Engineering External Suppliers

Contracted Maintenance – SIAEC Singapore "D" Check on Qantas Aircraft VH-OJO V/C: T7105

> AQD Audit ID: 06/SPT/10 Audit Dates: 16th –18th May 2006 & 31st May – 9th June 2006

1. Audit Summary, Conclusion & Findings

Findings & Quality Concerns relating to this audit are attached:

Executive Summary:

2 Surveillance audits occurred during this planned 40-day maintenance check -

16th–18th May 2006 (14th Day into check)

31st May – 9th June 2006 (28th Day into check)

SIA Engineering Company (SIAEC) functions as an MRO and provides total support services to Singapore Airlines and International Customers. They hold a current Singaporean CAAS 145 regulatory approval and in addition hold international approvals such as EASA 145 and FAA 145 for Heavy Maintenance.

Given the significant nature of this (40 day –7,000 Task Card) aircraft maintenance check there is obvious airworthiness & quality related risks to the business.

SIAEC approvals demonstrated airframe capability for the Qantas registered aircraft VH-OJO, however QF differences training (CAR214) was provided to address known skill gaps.

Timing of surveillance audits allowing for sampling of on-site activities, focusing on Inspection/Rectification and Assembly stages.

Concerns were noted when SIAEC maintenance personnel appeared to struggle with the Qantas task card maintenance system and all its attachments. For first time users it appeared to be an over load of data to comprehend with various levels of understanding and compliance.

Aircraft VH-OJO was delayed by approx 10 days from the scheduled timeframe and numerous issues were identified and corrected.

Conclusion:

Considering the number of issues raised during this off-shore maintenance and that this was the first heavy maintenance "D" check with SIAEC, consideration should be taken into account for any future HM contracts covering the following subjects:

- Control of Sub-Contractors
- Measurement of Skill Gaps
- Levels of Competence
- Customised MRO task card package pre-stamped covering stage inspections, CPC inspections, certification of flight controls, recalls, AD compliance limitations or warnings etc.
- HM Doc's & Proc's training material, review content & approval process
- Human Factors

Given if contracted MRO's are clearly made aware of Qantas requirements, this could assist in monitoring stages of maintenance at set intervals, which would aid in ensuring compliance with significant functions and/or high-risk activities, with a positive outcome for both parties.

2. Introduction

This audit report forms part of the Quality System Audit Program carried out by the Quality System Compliance Group. The audits are conducted in accordance with Qantas Engineering procedure manual 8-30-012.

3. Scope and objective

Scope:

Elements covered during the Audit include, but not limited by the following:

Review previous audit results/history

Contracts/Approvals

Management Responsibilities

Facilities

Training/TNA's

Personnel/Certifying Staff

Production Planning

Approved Data

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

Tooling/Equipment including calibration

Parts and Materials

Certification of Maintenance

Occurrence Reporting/Quality System

Maintenance Records

Product/Processes with VH-OJO maintenance activities

Objective:

Compliance audit in accordance with Qantas PM 8-30-012, objectives are to: Assess compliance with applicable Approvals/Standards /Regulations. Assess adequacy & conformance to relevant Policy, Procedures and Processes. Identify opportunity for Business/Quality improvement where apparent. Report Audit outcomes to Management.

4. Documents used as standards

Maintenance Organisation Authorisation QA 035 dated 28 April 2006 (MOA) 747-400 CMPM dated 28 March 2006 (C5861) Qantas Engineering Procedures & AMM's

5. Auditors

Lead Auditor	S-AB2/8
Snr Quality Surveyor	MELBSC

6. Department Representatives

Gerard Monteiro	Acting Manager Audit & Standards	Hangar 31
Andrew Teo	Snr Quality Engineer	Hangar 31
Jeffrey Lee	Base Maint Supervisor	Hangar 31

7. Distribution

CENTRAL CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT

The recipients of this report are:

Joe Favazza	Manager Quality System Compliance	S-AB2/8
Derek Smith	Manager Quality Standards	S-AB2/8
Keith Clark	General Manager Heavy Maint	S-AB2/3
Brenton Maile	Manager HM Projects	S-AB2/3
lain Hodgson	Manager Airworthiness Compliance	S-AB1/8

Mark Ross

Team Leader





Date 7th July 2006

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Attachment

Findings raised during 1st Surveillance Audit

F1119-06 - Technical Publications / Approved Data

Qantas Maintenance Memo's not being Read n Signed by SIAEC personnel.

F1120-06 - Facilities

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Lighting in aircraft VH-OJO poor, for inspection and maintenance activities. Including control of debris/FOD on aircraft flooring.

Storage & Segregation of parts removed from aircraft in hanger should be monitored to prevent damage. Ie. Very congested.

F1121-06 - Tooling & Equipment

Thermograph (Temperature/Humidity) instrument in Composite shop did not display calibration due date label or identification.

Heater blankets in Composite shop, portable tester not available for resistance/wattage compliance checks.

Recall system for tooling items requiring 'calibration' requires monitoring, report from SIAEC calibration facility indicates approx 200 items require calibration for May/2006. At the time of audit several items were seen as "overdue for calibration". In 14 May 2006

F1122-06 - Parts & Materials

Sheetmetal shop - Raw material off-cuts in toolcrib cage had no traceability. Ie. Part number/release notes.

Prepreg rolls in freezer no.2 not supported separately on any rollers and stacked together.

Freezers #1 & #2 indicated a storage temperature of (-8C), Boeing SRM indicates a storage temperature of below (-12C).

F1123-06 - Maintenance Records

Sample of job cards indicated "progressive certification" had not been completed.

Composite Repair - Hotbonder FG0063 - "compliance test printout record" not attached to maintenance record. le Product Samples SWJC No. CS 156/May/06 & CS 148/May/06

F1124-06 – Quality Concern/QF Team Oversight of Operations

Quality & Risk (Compliance Representative) attended 1 production meeting on Tuesday 16/5/06 between SIAEC & QF staff, results of meeting identified numerous issues with aircraft VH-OJO undergoing maintenance, actions and outcomes being monitored by Qantas Team for continual improvement.

Airworthiness & Quality Concerns raised, discussed and resolved during 2nd Surveillance Audit

Maintenance Records

- Independent Inspections of Flight Control process not understood, and inspections not being performed or written in logbook.
- Recall functions not signed and being missed on Qantas task cards, SIAEC personnel not referring to or reading El's or AMM chapters where it clearly defines requirements. Ie. AD compliance issues.
- Knowledge of Qantas MR sheets poor, example #2 Engine fan blades installed, task card signed up but MR Sheet not completed, which incorporates an independent inspection.
- El result sheets not being completed, information passed on.
- D Progressive Certification being monitored, daily improvement.
- No release/batch numbers recorded for parts changed.
- Review of SIAEC operations room showed task card system quite confusing, after several attempts could not confirm status of job cards. Ie. Not started, In progress, awaiting spares or tech services, etc.
- SIAEC work task card grouping & sequencing of jobs, not very well managed. Approx 7,000 routine/non-routine cards to be covered in OJO 'D' check.

Training/Competency

- Differences training provided by QF training school personnel, classroom & readnsign packages. SIAEC still appeared to struggle with RR Engine functions, IFE issues, Skybed and seating etc.
- Qantas delivered HM Doc's & Proc's training, review & approval of course content and development should be established. Ie. Independent inspections were covered, but not recall functions also noted no allocated course # for training in approved MOA document.
- Structures Engineer Confirmation that some composite repairs not completed in accordance with SRM. Ie. SIAEC knowledge and competence
- □ SIAEC training records were reviewed for people in composite shop, records produced indicate some vendor training ranging from 1997 to 2004, noted no refresher training is incorporated.
- SIAEC heavy maintenance personnel coverage, they perform more maintenance activity with lower level inspection tasks such as checks A or B etc, this could be a trigger that has indicated what they have missed in relation to the Qantas D check. Ie. Inspection criteria is far more detailed within a D Check function.
- Main Deck Zones A & B seats being installed, competence levels with Skybed seating & IFE cables routing etc unclear. Concerns with this activity could possibly cause further delays to aircraft, mentioned to QF rep to watch this maintenance.
- Carpet layout and preparation different, Qantas drawings explained the unique numbering system; Qantas task card refers to drawing, which contains all details. SIAEC did not appear confident with carpet installation around emergency lighting in the floor system & the final cutouts of trim to cover seat tracks between seats.

Approved Data/Processes

- SIAEC struggled with out task cards and were confused with documents they needed to refer to & read for correct completion of tasks. le El's, SI's, MR's, QPS spec, flight control log, controlled reports, drawings, Maint Memo's etc.
- SIAEC personnel could, not access Qan/E&M-PRO-PDF policy manual CD loaded onto SIAEC system, at the time of audit.
- Qantas upper deck galley repair -- approved data CMM or CD not available to SIAEC.
- QPS cleaning specification not complied with, deviation process not understood by SIAEC.
- Rolls Royce repair (Blocker Doors), SIAEC do not stock correct 'water break' material required for that repair.
- No dedicated paint facility on site, painting carried out in hanger with obvious over-spray and inside of aircraft with rollers.

Parts and Materials

- Daily production meetings revealed constant issues with spares. Ie. Preload stock and rectification work, dealing with logistics/handling, items getting lost, accurate whereabouts etc.
- QF Spares held in 3 locations, confirmed SIAEC LAMES in hanger and AME's in workshops could not access database for search criteria of Qantas parts available.
- RR Engine spare parts holding up SIAEC production work.
- Noted SIAEC personnel using hardware from personal containers, no part number or release note control.

Sub-Contractors for SIAEC

 Observed various sub-contractors working on aircraft IFE/First Class Pods/Skybeds all performing maintenance functions, confirmed these personnel did not receive any QF differences training/CAR 214.

Note: Only SIAEC Lames/Supervisors received this training, not the contractors. le. Aerospec – IFE/Seats, Aviation Jobs – IFE/Seats, Jamco – IFE/Seats.

Human Factors

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Qantas LAMES working on-site to oversight a major maintenance activity away from home. At the time of this audit redundancies were discussed, some were successful with internal transfers some were not, with the possibility of preparing to leave Qantas on there minds.

END OF REPORT -

Appendix 2. 2



Administrative Appeals Tribunal

DECISION AND REASONS FOR DECISION [2010] AATA 500

ADMINISTRATIVE APPEALS TRIBUNAL GENERAL ADMINISTRATIVE DIVISION

No 2008/0261, 2385

Re

And

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WAYNE VASTA MICHAEL MCKINNON

Applicants

CIVIL AVIATION SAFETY AUTHORITY

Respondent

DECISION

Tribunal Mr P W Taylor SC, Senior Member

Date 6 July 2010

Place Sydney

Decision The Tribunal directs, pursuant to section 35(2)(b) of the Administrative Appeals Tribunal Act 1975, that public disclosure or publication of the Quality System Compliance Internal Audit Report dated 10 August 2006 and 6 October 2006, (Exhibit A11) be prohibited and that disclosure of the document be restricted to the Senior Member hearing the proceedings, the Tribunal staff, the Auscript staff, CASA and its legal advisers, and the Applicants and their legal advisers and experts.

.....[sgd]..... Mr P W Taylor SC Senior Member

CATCHWORDS

PRACTICE AND PROCEDURE – proceedings – freedom of information – application for confidentiality order – basis for consideration – order granted

Administrative Appeals Tribunal Act 1975 s 35

Australian Securities and Investments Commission v Administrative Appeals Tribunal [2009] FCAFC 185; (2009) 181 FCR 130 Australian Securities and Investments Commission v PTLZ (2008) 48 AAR 559 Hans Pet Constructions Pty Ltd v Cassar [2009] NSWCA 230 Re Pochi and Minister for Immigration and Ethnic Affairs (1979) 26 ALR 247

REASONS FOR DECISION

6 July 2010

Mr P W Taylor SC, Senior Member

1. In the course of these proceedings the Applicants tendered a Qantas Airways Limited ("Qantas") internal audit report. The report is dated 6 October 2006 and relates to an audit carried out on (or perhaps more accurately, commenced on) 10 August 2006. Qantas seeks an order under s 35(2) of the Administrative Appeals Tribunal Act ("AAT Act") restricting the disclosure of that document.

2. The internal audit report is related to a deal of public controversy, in the period from about mid 2006 until mid 2007, about air safety issues, particularly in relation to Qantas. I summarised the background to that controversy in the section of the substantive Reasons for Decision on the review applications by Mr McKinnon and Mr Vasta. The heading for that section of the Reasons for Decision is "Background to the information requests". It is plain from that summary that the general thrust of the internal audit report, was reported in the media and on more than one occasion. The Applicants contend, in effect, that the contents of the report have, in a real practical sense, already entered the public domain. Alternatively, they contend that the disclosure of the report is desirable to permit proper and informed evaluation of matters that are in the public domain.

3. Section 35(2) of the AAT Act confers four specific powers that apply generally to Tribunal proceedings. They include powers:

- to prohibit or restrict publication to the parties of evidence given to the Tribunal, and matters contained in documents lodged with, or received in evidence by, the Tribunal;
- (b) to prohibit or restrict other publication of evidence given to the Tribunal and matters contained in documents lodged with, or received in evidence by, the Tribunal.

4. In the exercise of the powers conferred by s 35(2) of the AAT Act the Tribunal must take as the "basis of its consideration" the principle expressed in AAT Act s 35(3). That principle is that it is desirable that:

- (a) hearings of proceedings before the Tribunal should be held in public, and
- (b) the public and the parties should have access to:
 - (i) evidence given before the Tribunal,
 - (ii) the contents of documents lodged with the Tribunal or received in evidence by the Tribunal.

5. In taking that principle as the "basis of its consideration" the Tribunal must, nevertheless, pay "due regard" to the reasons given to the Tribunal why the hearing should be held in private, or why publication or disclosure of the evidence or the matter contained in the documents should be prohibited or restricted.

6. The obligation to pay "due regard" to the reasons proffered for publicity restrictions is beguiling in its apparent simplicity, but potentially complex in practice. In *Australian Securities and Investments Commission v Administrative Appeals Tribunal* [2009] FCAFC 185; (2009) 181 FCR 130 the Federal Court was concerned with orders the Tribunal had made staying the operation and implementation of an

ASIC banning order under Corporations Act s 920A requiring the Tribunal applicant to be referred to by pseudonym, providing for a private hearing and restricting the publication and disclosure of evidence and lodged documents.

7. The principal focus of the judgment was the scope of the Tribunal's stay powers under AAT Act s 41(2), in the face of apparently mandatory publication obligations the original decision triggered under the Corporations Act. But the Court emphasised the approach required by proper exercise of the AAT Act s 35 power. This emphasis is apparent in the following passage of the judgment of Downes and Jagot JJ:

[74] ... it is important to emphasise certain aspects of the statutory provisions. Although s 35(1) is subject to the balance of the section, it establishes a norm. The norm is that the proceedings before the AAT shall be in public. This norm is reinforced by the requirements of s 35(3) which expressly confirm the principle that it is desirable that hearings be held in public. It follows that when deciding whether it is satisfied that it is desirable to exercise its powers under s 35(2), the AAT is required to form a state of satisfaction which recognises the existence of the norm and the values it is intended to protect. This, no doubt, is why Brennan J in Re Pochi and Minister for Immigration and Ethnic Affairs (1979) 36 FLR 482 at 510 described the power in s 35(2) to depart from this norm as one to be exercised "sparingly". It also explains the approach in Australian Securities and Investments Commission v PTLZ (2008) 48 AAR 559; [2008] FCAFC 164 at [6], [41] and [42] ... emphasising that the words of s 35(3) require this principle of the desirability of hearings to be in public to be "the basis" of the AAT's consideration of adopting a different approach (in contrast, for example, to "a basis" for that consideration).

8. The decision referred to in this passage - *Australian Securities and Investments Commission v PTLZ* (2008) 48 AAR 559 at [41] and [42] - had emphasised the primacy of the "public hearing" desirability. In so doing it warned against conflating the task involved in exercising the s 35(2) power with other powers which, while also containing the general "desirability" criterion, lacked the additional emphasis provided by "the basis of … consideration" provision in AAT Act s 35(3). It would seem that the purpose of this warning was to discourage exercise of the AAT Act s 35(2) powers merely by an impressionistic comparison of the factors for and against public accessibility.

9. This emphasis is consistent with other statutory provisions that dictate regard to particular considerations in the exercise of a statutory power. In *Hans Pet*

Constructions Pty Ltd v Cassar [2009] NSWCA 230, the NSW Court of Appeal had this to say about a statutory requirement "to have regard to" specified considerations:

- [41] The content of the statutory requirement "to have regard to" a specific matter has been discussed often and is not in dispute. Spigelman CJ (with whom Macfarlan JA and Young JA agreed) said the following in Commissioner of Police for New South Wales v Industrial Commission of New South Wales & Raymond Sewell [2009] NSWCA 198 at [73]:
 - [73] A statutory requirement to "have regard to" a specific matter, requires the Court to give the matter weight as a fundamental element in the decision-making process. (R v Hunt; Ex parte Sean Investments Pty Ltd (1979) 180 CLR 322 at 329; R v Toohey; Ex parte Meneling Station Pty Ltd (1982) 158 CLR 327 at 333 and 337–338; Zhang v Canterbury City Council [2001] NSWCA 167 ; (2001) 51 NSWLR 589 at [71]–[73]). An equivalent formulation is that the matter so identified must be the focal point of the decision-making process. (See Evans v Marmont (1997) 42 NSWLR 70 at 79–80; Zhang supra at [73].)

10. The potential import of the "basis of ... consideration" obligation is apparent from Brennan J's observation in *Re Pochi and Minister for Immigration and Ethnic Affairs* (1979) 26 ALR 247 at 270:

To exclude the public from a hearing is a serious step, for the Tribunal is required by statute (s 35(3)) to "take as the basis of its consideration the principle that it is desirable that hearings of proceedings before the Tribunal should be in public". This is a principle which is binding upon courts of justice ... and which is calculated to ensure that public confidence in proceedings to administer justice is both warranted and maintained. It is a principle of particular importance to a Tribunal which is engaged in reviewing the exercise of administrative power, for administration has hitherto been a cloistered process ... and its exposure to public scrutiny is calculated to enhance greater public confidence in it.

11. The AAT Act does not specify the considerations that inform assessment of desirability as against the sufficiency of the reasons advanced to justify restriction. But two general considerations are discernible. First, there is a concern to uphold the intrinsic efficacy of the Tribunal's review function. The concept of "intrinsic" efficacy addresses both general and particular interests. The general interest is that of discouraging perceptions of secrecy in the review process lest that perception undermine both confidence in the impartiality, and the true reality, of rigorous merits review. The particular, and perhaps partly competing, interest is the apprehension of a merely Phyrric determination of the contentious issues, where disclosure either inhibits, or entirely negates, the real practical impact of the proceedings. Secondly,

there is the concept of "procedural" efficacy, which can be regarded as a concern with the adequacy of the information available to the review process. In that regard Brennan J suggested in *Pochi* at 272 that the basic purpose of the s 35(2) powers was:

... to secure to the Tribunal the availability of as much relevant information as possible, without violating the confidentiality which a party, a witness or the public is properly entitled to preserve (though a proper entitlement to confidentiality is not lightly established). A court may be constrained to violate that confidentiality in order to conduct its proceedings in public; but the Tribunal's powers are intended to facilitate the flow of relevant information to it, and if the exclusion of the public or even of a party is essential to preserve the proper confidentiality of the information needed to determine the application, that is a price which has to be paid, however reluctantly.

QANTAS' CONTENTIONS

12. Qantas contends that the internal audit report is an internal document, expressed in direct language, that properly reflects focussed internal discussion and concern, but which is inappropriate for public dissemination. It complains that publication of the report, and the information it contains, could be misleading, and significantly adverse to Qantas' commercial business.

13. An additional contention is that disclosure would contravene the principles, of restricted disclosure of air safety related information under the Convention of International Civil Aviation 1944 ("the Chicago Convention"). I summarised Qantas' general contentions in relation to this Convention in the Reasons for Decision on the substantive applications (under the heading "Qantas' position in relation to the SDRs"). Although the matters I there summarised were directed to the question of disclosure of the "Service Difficulty Reports", substantially the same emphasis can be placed on the question of disclosure of the internal audit report.

THE APPLICANTS' CONTENTIONS

14. The Applicants' contention is that there has already been substantial disclosure of the controversy to which the internal audit report relates. Indeed, there has been a degree of public debate, including responses from CASA, Qantas and SIA Engineering Co. (I referred to these matters in paragraphs 8 and 10 of the

substantive reasons.) The Applicants contend that since that degree of public debate has occurred, and at least with the partial participation of the entities I have just named, it is inappropriate to make or continue any limited disclosure order in relation to the internal audit report.

15. The Applicants contend Qantas' submissions relying upon the Chicago Convention, and Annexure 13 in particular, are misplaced. There is no relevant departure by Australian domestic practice from the International Civil Aviation Organization Standards or Recommended Practices. The Applicants note that Qantas' submissions effectively concede that, in Australian law, the Chicago Convention does not operate to preclude disclosure of the contentious audit report. The Applicants say, and ultimately Qantas did not really dispute, that the Chicago Convention principles were merely relevant considerations. But the controlling principles were provided by the Tribunal's powers under AAT Act s 35.

DECISION – RESTRICTED DISCLOSURE

16. I reject the Applicants' basic contentions in support of disclosure of the internal audit report. Despite the "basis of consideration" principle, it is necessary to pay due regard to the nature of the document in question. It is also necessary to pay due regard to both its role in the present proceedings and its independent status under the FOI Act, as if it had been one of the documents to which the substantive requests directly related.

17. So far as the nature of the document is concerned it is self evidently a critically important document. Moreover, it is one that would not ordinarily be expected to be available for public discussion. Indeed, given the extraordinary energy and complexity that is involved in airline maintenance and safety issues (and to which I allude in the substantive Reasons for Decision) it is difficult to conceive any circumstances in which such a document would be publicly released. Its very purpose is to facilitate critical internal evaluation of safety related problems, or potential problems. Such a purpose is fundamental to achieving and maintaining proper standards. It is a purpose that is unlikely to be achieved without candour, plain language and lack of undue sensitivity to the risks and vagaries of public

discussion, misunderstanding or malicious manipulation. In my opinion, it is highly undesirable that documents that owe their origin to such a particular purpose, and which do express criticism intended to prompt appropriate intra organisational responses, should be the subject of public disclosure. It is undesirable unless good reasons exist to demonstrate that public disclosure is desirable and appropriate.

18. So far as the role of the document in the present proceedings is concerned, its tender served three purposes. First, it underscored the general public interest in aviation safety. It did this by giving a degree of content to the subject matter of the controversy and public discussion to which I referred in paragraphs 8 and 10 of the substantive Reasons for Decision. Second, it tended to highlight the likelihood that documents responsive to the Vasta and McKinnon requests had not been produced. Third, it tended to demonstrate the legitimacy of the public interest in, and concern about, the matters to which the internal audit report related. The Applicants' general contention was that, having regard to the substance of the matters in the report, there were very real arguments that disclosure of the documents to which their respective document requests related was (i) very much in the public interest and (ii) most unlikely to have any unreasonable adverse effect – either on Qantas or on the future supply of information to CASA.

19. But whilst the internal audit report had a relevance to the substantive FOI applications, it was not a document that fell within their scope (because Qantas not CASA, had possession of it). It is nevertheless instructive to consider the question of the likely disclosure of the internal audit report if it had been identified as a document in CASA's possession, and was responsive to either of the two FOI applications. Having regard to its contents, I have no doubt that it would have been an exempt document. This is so for substantially the same reasons that I considered the documents I described as "Qantas SDR documents" are exempt. The internal audit report is an internally generated document produced for Qantas' own purposes in relation to a critically important, and highly sensitive, aspect of its commercial operations. The discipline and perspective with which it was created likely owe nothing to the legitimate self interest restraints that would apply to the authorship and content of such a document if the risk of public dissemination had been taken into account. I consider that public disclosure of such a document, if its production had

been sought from CASA, would have been quite precluded by the exemption ground in FOI Act s 43(1)(c)(ii) – at the least.

DECISION

20. I direct that public disclosure or publication of the Quality System Compliance Internal Audit Report dated 10 August 2006 and 6 October 2006, (Exhibit A11) be prohibited and that disclosure of the document be restricted to the Senior Member hearing the proceedings, the Tribunal staff, the Auscript staff, CASA and its legal advisers, and the Applicants and their legal advisers and experts.

I certify that the 20 preceding paragraphs are a true copy of the reasons for the decision herein of Mr P W Taylor SC, Senior Member	
Signed:	
[sgd]	
Associate	

Dates of Hearing Date of Decision Counsel for the Applicants Solicitor for the Applicants Solicitor for the Respondent Solicitor for Qantas Airways Limited 19-22 April 2010 6 July 2010 Mr T Brennan Ms R Eagles, Sparke Helmore Mr A Anastasi, CASA Mr M Mackrell, Norton White

Appendix 3.

COA 100
Anstralian Government Civil Aviation Safety Authority Initial Issue of or Change to particulars of a COA Assessment Control Document
Use this control document when an initial issue of, or a change to a Certificate of Approval, is sought. Attach a scanned copy of this document and any reference documents to WMS and retain the original on file in accordance with Records Management procedures.
WMS Job Number: Proposed COA number: 1-21141
Legal Entity: SIA ENGINEERING COMPANY GTD ARN: 759139
Trading Name: Company representative:
Area Office File Reference: 06/4219
Airworthiness Team Leader Documents identified in CSC Instruction Sheet attached to WMS or received: Yes No CSC Estimate reviewed: Yes Pre-assessment meeting scheduled Yes No Refer folio: African Average No Description No Pre-assessment meeting scheduled Yes Name: Name:
Phase dates entered into WMS Yes Job accepted in WMS Yes T Team Leader name: <u>B:C-hAuls</u> Signature: Date 201091 2006
Inspector V COA holder's compliance history reviewed: Yes No Refer folio: <u>iNITIAL_ISSUE</u> COA activity scope reviewed (AIRS): Yes No Refer folio: Pre-assessment meeting completed: Yes No N/A Refer folio: Documentation Evaluation complete Inspections and Tests complete Certification phase complete Inspection folio: The following checklists completed and placed on file: Ves Ves Ves Ves Ves
COA 200 \Box COA 201 \Box COA 202 \Box COA 300 \Box COA 400 \Box COA 500 \Box COA 600 \Box COA 601 \Box COA 602 \Box COA 603 \Box COA 604 \Box COA 605 \Box COA 606 \Box COA 607 \Box COA 608 \Box COA 700 \Box COA 800 \Box Application for initial issue / change recommended:YesNoRefer folio:
Inspector name: D. HAMSTICA Signature: Date: 22/9/2006
Airworthiness Team Leader Recommendation for initial issue (change supported) Yes V No Refer folio: N/A -
Recommendation of COA activity scope supported: Yes No Refer folio: MA Refer folio: MA Refer folio: MA
SFR drafted Estimate of Actual Costs completed Actual Hours field in WMS updated Team Leader name: Image: Cost and the second seco

Form 768 11/2005

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4.11

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CIVIL A VIATION SAFETY AUTHORITY AUSTRALIA

System of Quality Control and Procedures Manual

COA 200

Yes, No or N/A

YES

14001

<u> 165</u>

ES.

'ES____

7ES

YES

N|A..... N|A.....

150 9001 17025]

General

CAR 30(2)

Applicant: 51A ENGINERONG CO LTD File Ref. 06/4219 DO:

Pursuant to regulation 30(2) of the Civil Aviation Regulations, an applicant for the grant of a Certificate of Approval must submit:

- In all cases, an acceptable written system of quality control (the "system") 0
- In the case of maintenance of Class A aircraft, an acceptable procedures manual which incorporates a written system of quality control.

Carry out an assessment of the applicant's System of Quality Control/Procedures Manual to ensure that they meet the minimum requirements of CAR 30(2D), as applicable.

CAR 30(2D) nominates Australian Standards AS3900 through AS3904 as providing Note: suitable guidance for the content of a system of quality control.

Important: The scope and size of the applicant's proposed organisation will determine the applicability of the checklist items. The content of the checklist is not absolute.

The checklist is provided in the form of questions to respond to, which are not in all cases intended to indicate essential requirements, but to aid the person performing the assessment in addressing the requirements of CAR 30.

Written System of Quality Control

Ouality Standard

Does the organisation hold accreditation with Standards Australia or equivalent?

Organisational Structure

Structure:

- Is the position controlling the activity nominated?
- Is the organisational structure satisfactory?
- Are the persons nominated as responsible for the control of activities satisfactory? Þ
- Do the persons nominated for the control of activities have sufficient authority? ė

Staff:

- Is the number of staff acceptable?
- Are qualifications and experience acceptable?
- Are the qualifications and experience of the applicant and employees satisfactory? o

Work carried out under an arrangement with another organisation:

- Are the qualifications and experience of the other organisation's staff satisfactory?
- Can satisfactory control be exerted over the organisation?

Page 1 of 5

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

i .]

COA 200
Yes, No or N/A

755 753

YEJ

YES

155

YES

YET

YES

NA

YES

YEJ

YET

YES

YEJ

YES

ES

YET

YES

YES

YES

Management Responsibility

Do the quality management procedures identify:

- The personnel authorised to perform quality control checks and to amend the organisation's procedures
- The tools, equipment and documents used by quality control personnel?

Do management familiarise staff:

• With the system

CIVIL A VIATION SAFETY ACTHORITY AUSTRALIA

With changes to the system?

In relation to staff training, are there procedures for:

- · Alerting management to personnel's training needs
- · Identifying the content of necessary training
- · Identifying an appropriate trainer
- Identifying personnel who need training
- · Developing an implementation plan, if necessary
- Forwarding training package submissions to CASA for approval, if applicable
- Proper record-keeping of training received?

In relation to the audit system:

- Is management's commitment clearly stated
- · Are communication lines clear
- · Are the audit periods satisfactory?

Are there procedures to ensure the validity of employees' Instrument of Appointment, licences and authorities?

In relation to defect reporting, is there a procedure for:

- Investigating defects
- Safeguarding against recurrence of defects
- Notifying defect occurrences?

Are there procedures for:

- Rejecting non-conforming aircraft components and materials
- Notifying CASA of rejections
- Retention of documentation?

Control of Work

Are there procedures that:

- Describe activities
- · Ensure that work forms are clear and concise
- Address an approved system of certification?

Does the system address shift change procedures?

VES
YES
YES
YEJ

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Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

COA	200
Yes, No	or N/A

YEJ

45

<u>165</u>

YES

YES

7eJ

YET

1ET

YEJ

<u>-745</u>

YET

151

YET.....

YES

YES

YET

YET

Tools and Equipment

CIVIL A VIATION SAFETY A L'THORITY AUSTRALIA

Are there procedures for storage, maintenance, control and calibration of equipment?	
Are the specified calibration periods acceptable?	<u>YE5</u>
Are there means to control tools that are borrowed or hired?	. <i>N </i> A

Stores Control

Do the procedures for the storage of goods cover the following:

- Suitable size and construction for the activities
- · Segregation of volatile or corrosive materials
- Segregation of commercial goods from aircraft components and materials
- Shelf-life procedures and periods
- Rubber goods
- Gyros and other delicate components
- Storage of flexible goods in a 'no stress' situation
- Sheet metal
- Fitting of blanks to ports of components and hoses
- Electrostatic-sensitive components
- Storage of dangerous goods
- Aircraft tyres
- · Inhibiting requirements of components and materials
- · Provision of ample and suitable storage space for goods held at the location
- Catering for special storage provisions
- General packaging
- Manufacturers' requirements
- Compressed gas cylinders?

Quarantine Facility

Do the procedures ensure that:

- Unserviceable items are identified
- · Adequate security is provided
- Serviceable and unserviceable items are segregated?

Documentation

Do the procedures ensure that:

- Incoming goods are checked against, and identified by, incoming documents
- Stored items and accompanying documentation are matched
- Outwards documentation contains sufficient information to maintain traceability
- Record-keeping practices are acceptable
- Labelling is adequate?

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YEJ
51
<u>js)</u>
723

YEJ 7EJ

YET

YES

YES

333

COA 200

Yes, No or N/A

NO

YEJ

YET

TET

. YEI

ET.

YET

YEJ

KJ

YET

YEJ

<u>YET</u>.....

YES

Documentation (cont.)

CIVIL AVIATION SAFETY A CTHORITY AUSTRALIA

In relation to release documentation:

- Is CASA form DA1 utilised
- If not, does the alternative form contain the required regulatory information?

Data

1

Does the applicant hold current copies of appropriate regulatory documents and technical data?

Is technical records control satisfactory?

Are there procedures for regular amendment of data?

Do employees have easy access to current data?

Accommodation and Amenities

Does the system cover the following:

- Administration office facilities (including filing cabinets, desks etc.)
- · Lighting, work benches, stands and other equipment
- Environmentally-controlled and dust-free areas
- Protection against the elements
- Compressed air
- Water
- Electricity
- Ventilation
- Provision for keeping the premises clean and tidy?

Segregation of Activities

Does the system address prevention of contamination to adjacent areas from:

- · Component maintenance areas
- Battery charging lead acid & nickel cadmium
- Machine shops
- · Painting operations
- · Fabric work
- Composite materials
- Grit or bead blasting
- Volatile fluids
- Cleaning
- Special or unique inspection areas?

YES
.75
765
NA NA
.763
YET
YET. YES
1.65

38952 YEL A.S.

COA 200 Yes, No or N/A

Mobile Facilities

CIVIL AVIATION SAFETY ALTHOUTY AUSTRALIA

Does the system adequately address any mobile facilities available to the applicant?

Will such facilities as described:

- Carry all required tools and equipment
- Carry all regulatory and technical documents c
- Carry all aircraft components and materials safely and securely a
- Segregate aircraft components and materials from contaminants? ۵

Locations

1.1.

Are the quality system procedures in relation to remote locations appropriate to the activities, limitations, procedures and reporting requirements?

Are the remote location to main location communication facilities and reporting procedures adequate?

Does the system cover the use of temporary locations?

Procedures Manual

General

Does the procedures manual contain all the information necessary for a system of quality control as detailed above?

Does the procedures manual contain the following manual control items:

- Applicability
- Log of pages
- Index
- Amendment record 2
- Amendment procedures
- Register of manual holders? ۰

Assessment completion date:

Does the manual address the following topics:

- Implementing and complying with a Certificate of Registration holder's system of maintenance
- Notifying the Certificate of Registration holder that the system of maintenance 0 is defective, or no longer applicable
- Changing the Certificate of Registration holder's system of maintenance where a contractual arrangement exists?

22	ĴG	12006

Name of person performing the assessment: D. HAMSTRA

.N/A...... .N/A.....

...N/A..... .N/A..... NIA



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YES
<u>7</u> =5
YET
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УЕТ
YEJ

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cert approval-checklisi-system of quality control & procedures manual-coa 200

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Civil A Viation SAFETY AUTHORITY AUSTRALIA

System of Quality Control

COA 202

System of Computer Control

CAR 30(2A) and 30A

Applicant: SIA ENKovERING Co LTD. File Ref: 06/61219. DO:

This checklist is to be used if the applicant proposes to use a computer for the control of activities where the storage of essential information or data is required to meet his or her commitments under CAR 30, and no equivalent hard copy documentation is to be utilised for this purpose.

Use this checklist in conjunction with:

COA 200: System of Quality Control and Procedures Manual: General.

Yes, No or N/A

Power Supply

Do the procedures address the avoidance of data loss in the event of power interruptions, including:

- Detection of variations in supply voltage
- Provisions to indicate to the user that a power supply interruption has occurred
- Automatic power supply transfer to a backup system in the event of excessive supply variations?

System Back-up

Are there procedures for:

The production of a daily backup copy of data on a suitable storage medium

Storage of backup tapes or discs in a secure fire-proof location remote from the installation?

Data Access

Is the computer system software and data protected from unauthorised access – e.g., passwords?

Trial Period

Have trial period details been specified?

УЕЗ УЕТ



<u>765</u>..... YES

YES

NA

Page 1 of 2

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CIVIL AVIATION SAFETY ACTHORITY AUSTRALIA

COA 202

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Yes, No or N/A

Computer Systems Operations Manual

Besides general operating instructions for the system, does the computer systems operation manual contain:

Ð	A procedure that will ensure that system software cannot be corrupted, where the system permits the periodic dumping of data held on consolidated tapes or discs intended for storage	TES
D	A procedure for identifying and isolating any software viruses	
•	A copy of all hardcopy documents used with the systems	753
٥	Full details of any electronics certification procedures employed	. <u>7=5</u>
	A procedure to ensure that the manual is available to persons authorised to operate the system	YEJ
8	Procedures to ensure software and hardware security?	YES

Remarks: FRUR IDENTICAL STREVERS LOCATED AT SERARATE LOCATIONS. THE DRECKATING SYSTEM IS BACKED IN DAILY. THE ANTI VIEWS SYSTEM IS MICLOSPET TREND. ACCESS TO THE SERVICES IS LIMITED BY ISEY. BROCEDULED ARE IN PLACE TO LIMIT BOD BY ISEY. OPERATING SYSTEM BY PASAWORD. THERE IS LIMITED SPACE ALLOCATED ON THE SERVICE AND WILLISATION IS MONITORED.

Assessment completion date: 22/9/2006 Name of person performing the assessment: DHAMASTRA

cert approval-checklist-system of quality control-computer control-coa 202

Manufacture and Maintenance of Aircraft

COA 500

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CAR 30(2A) and 30A

CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

Applicant: SIA ENGINEERING CO. 619 File Ref: 06/4219. DO:

Carry out an assessment of the applicant's System of Quality Control/Procedures Manual to ensure that they meet the requirements of CAR 30(2D).

In conjunction with an acceptable manual and facilities inspections, assess the application against the criteria of this checklist.

During the inspection(s) interview principal staff to ensure that each fully understands the content of the applicant's System of Quality Control/Procedures Manual and its implications.

Research should be undertaken with each application to determine what items are fundamental and to ensure that the applicant has the necessary fundamentals to satisfactorily carry out the tasks for which he/she has applied.

The diverse activity of manufacture and maintenance of aircraft is such that is impractical to produce dedicated checklists and because a fundamental item is not on this checklist does not imply that there is no requirement for the item.

Important: The scope and size of the applicant's proposed organisation will determine the applicability of the checklist items. The content of the checklist is not absolute.

The checklist is provided in the form of questions to respond to, which are *not* in all cases intended to indicate essential requirements, but to aid the person performing the assessment in addressing the requirements of CAR 30.

As applicable, use this checklist in conjunction with:

- COA 200: System of Quality Control and Procedures Manual: General
- COA 201: System of Quality Control: Design and Manufacture of Aircraft, Aircraft Components and Materials for Complex Locally Designed Products
- COA 202: System of Quality Control: System of Computer Control
- COA 300: Design of Aircraft and Aircraft Components and Materials.

General

Verify by inspection and interview that the procedures laid down in the System of Quality Control/Procedures Manual have been put in place at the location(s) outlined in the application.

Organisational Structure

Remarks: ORGOVISATIONAL STENCTURE DETAILED IN SIA ENGINEERING COMPANY EXPOSITION CHAPTELS 1.4, 1.5 - 1.5 CONSIDERED ADERNATE FOR THE SCAPE OF THE APPLICASION.

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CIVIL AVIATION SAFETY ALTHORITY AUSTRALLA

COA 500

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Management Responsibility

Remarks:	MANAGE	MENT RE	SPONSIBIL	SIE DEFI	NET IN SIA	EC
CHAPTE	T. 1.5.	WILLIAM	TAN IS I	DENTIFIED	AS THE ACC	ANN TABLE
C+/AF Control d	ER DU V FOUND of Work	TIES & RESP SATTS FAC	RAS IBILI (1 É. TORY	5. Дасшығы	167) - <i>1</i> 35 <i>1</i> 01	KT IN (+
Remarks:	Eaun	D 5155	FRETORY	DURING	02/-5.77E	5
AU	$D_{I}T_{z}$					

Tools and Equipment Listed on File

Check the Tools and Equipment List on file against items at the Applicant's disposal. Note any discrepancies.

Remarks: TOOLING LIST RELATIVE FO THE SCOPE OF THE APPLICATION PROVIDED AND FOUND SAMSED CTORY

General

Towing facilities:

• Are the towing facilities adequate for the aircraft the applicant is likely to maintain?

Ground support:

- Oxygen charging trolleys
- Engine oil charging rigs
- Hydraulic rigs
- · Electrical ground power
- · Compressed air source (engine starting).

Is the equipment adequately maintained and not likely to contaminate aircraft systems?

Ramp handling equipment:

• Check its serviceability status (battery terminal protection, engine exhaust system, and so on).

X	5

Yes, No or N/A

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YET
YET
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YEJ

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Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1



CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

> COA 500 Yes, No or N/A

- 2

	bes the applicant have access to the following equipment and is it equately maintained:	
0	HP air/nitrogen regulator, oleo adaptor	
ø	Breathing oxygen refill regulator	
ø	Compressor, regulators, water traps, hoses etc.	$\gamma \epsilon j$
¢	Cleaning equipment and cleaning area	
•	Lubrication — oil cans, grease guns, pumps and storage	<u>YEJ</u>
c	Spray paint equipment	YET
0	Jacks, trestles, benches, stands, hoists etc.	YGJ
۰	Machinery – lathe, drill press, grinder, belt sander, guillotine, metal shears, sheetmetal folder etc.	YES
0	Wing and fuselage fixture jigs	YET
o	Aircraft levelling and alignment tools - trammels, plumb-bobs, spirit levels etc.	755
c	Scales, spring balance	YET
, D	General hand-held tools – air drills, tension wrenches, cable tensiometers, micrometers etc.	YES
Đ	Riveting equipment	YET.
ø	Rigging tools, inclinometers, control surface balancing equipment etc.	Ует
٠	Wheel balancer, tyre pressure gauge	OFFA TES
0	Spark plug cleaner and tester	NIA
۰	Cylinder leak down or compression tester	NIA
e	Timing lights and indicator plates	NA
D	HT lead tester	NIA
٥	Pressure gauges and hoses - fuel, propeller etc.	7EJ
ø	Manufacturers' specific tools and equipment	<u>_7</u>
ē,	Inspection Aids - mirrors, magnifying glass	YeJ
e	Lights - portable inspection, torches	<u>76</u> 5
٩.	NDT inspection equipment?	YEI

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Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1



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CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

	COA 500
	Yes, No or N/A
Helicopters	1 4
Main/tail rotors tracking device	<u>N/R</u>
Balancing equipment.	<u>N/A</u>
Wood and Fabric	•
General hand-held tools - clamps, saws etc.	N/A
Fabric tester	N]D N]D N]D
Acceptable heat source (fabric tensioning)	N/D
Fabric repair tools – various.	N/B
Fibre-reinforced Plastics	
General hand-held tools	
Resin/accelerator dispensing equipment	
Wet and dry bulb thermometer (humidity measurement)	
Accurate thermometer	
Vacuum source (pressure application)	705
Lay-up table and jigs	
Storage racks (for materials)	
Humidity control	Yes
Autoclave.	No
Electrical, Instrument and Radio	
Battery charger, hydrometer (located in suitable area)	УбЈ
Instrument calibration equipment	767
Pitot/static leak tester	YET
Hand-bearing compass	Yes
Electrical plugs/sockets assembly and crimping tools, wire strippers	75
Measuring and testing equipment – megger, multi-tester, bonding tester, accurate voltmeters and ammeters, digital devices, etc.	Уст
Soldering equipment	755
Radio simulators – Nav, Com, ILS, MLS, Marker, Transponder, DME, etc.	YEJ

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Qantas' future as a strong national carrier supporting jobs in Australia Submission <u>2 - Attach</u>ment 1

CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

COA 500

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REMARKS SIAEC BASE MAINTENANCE TOOLING EQUIPMENT AND FACILITIES DUL FOUND SATSFAUTORY DURING ON SITE AUDIT.

Calibration of Tools and Equipment

Check that all tools and equipment requiring calibration are nominated by the proposed calibration system.

REMARKS CALIBRATION OF TOOLS AND EQUIPMENT CARRIED OUS IN ACCORDANCE WITH STREC EXPOSISION CHAPPER 2.5 FRAND SATISFACTORY

Storage of Tools and Equipment

Check that all tools and equipment are stored so that they remain suitable for their intended function.

Remarks: ALL FOOLING AND STORAGE SITES FOUND SATTOFACTORY.

Stores Control

Remarks:	STOP	<u> es cant</u>	BOL,	UNDER	VICE PRA	SIDENT	MATTALIALS
TAN	Сни	HIANO	<u> </u>	DNTHAL	FOUND)	S&115+1	A THI

Stores Quarantine Facility

Remarks: STREET CONFERNITINE FACILITY FOUND STEQUATE ACCESS TO FACILITY BY KEY.

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CIVIL AVIATION . SAFETY AETHORITY AUSTRALIA

COA 500

Stores Control (cont.)

Stores Documentation

Remarks: STORES DOCUMENTATION FOR RECEIPT DISPATCA SEGREGATION TRACEABILITY AND SUSPECTED UNAPPROVED PARTS FOUND SATEFACTORY

Yes, No or N/A

Ver

Data

)

Does the applicant hold current copies of the appropriate regulatory documents:

8	Civil Aviation Act 1988	75)
٥	Civil Aviation Regulations	
•	Civil Aviation Orders	YES
D	Civil Aviation Advisory Publications	. YET
o	Airworthiness Advisory Circulars?	
Α	ssess the applicant's current technical data:	~ (>
ø	Manufacturers' maintenance, parts and structural repairs manuals	
•	Approved data associated with manufacture	<u>N</u>
6	Service Bulletins/Letters.	YET

Remarks: SIAEC HAS ACCESS TO THE CASA WEBSTE.

AREAMENTS FOR TECHNICAL DATA ARE ADECMATE
AND BPPROPRIATE INFTH THE CUSPONER FO
SUPPLY.

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CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

> COA 500 Yes, No or N/A

Accommodation and Amenities

Carry out an inspection of the available manufacture/maintenance area to ensure that: • The area accommodates the largest aircraft likely to be accommodated by the applicant
 The accommodation meets the plans submitted by the applicant. The accommodation meets the plans submitted by the applicant.
Remarks: SIAEC MAINTERVANCE FACILITIES ACCOMMANYE
SHORT AND LANG RANGE AILCEAFY. THE HAVE A
TOTAL OF FINE HANGARS AT CHANGI AILPORT
COMPRISING APPEOXIMATELY 48,000 SEC MITS.
Segregation of Activities
Remarks: SEGLETSATION FOUND SATTSFACTORY
,
Mobile Facilities
Remarks:

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CIVIL A VIATION SAFETY ACTHORITY AUSTRALIA

COA 500

Locations

Carry out an inspection of each of the applicant's locations which are not nominated as the main location. If the location is overseas:

- Request location advice re local ID/Security pass and customs/protocol requirements
- · Check if the location is subject to audit by foreign airworthiness authorities or other QA personnel
- Establish date of last visit, if applicable.

Remarks: ALL_ BASE MRINNENANCE IS CARLIED BUT O. AF THE MAIN FACILITY - SINGAPORE CINNGI AIRPORT.

Overall Inspection Assessment

REMARKS: INSPECTION OF THE BASE MAINTENANCE FACILITIES DEMONSTRATED THE RESOURCES AND COMPLIANCE WITH QUBLITY SYSTEM PROLETURES TO BE SAFTS FACTORY WITH REGARD TO CASA REGULATORY REQUIREMENTS FOR THE SCOPE OF THE APPLICATION. -

Assessment completion date: $\frac{22/9}{2006}$ Name of person performing the assessment: D. WAMISTRA C.R. BAYLISS.

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CIVIL AVIATION SAFETY AUTHORITY AUSTRALIA

Non-destructive Testing

COA 700

CAR 30(2A) and 30A

Applicant: SIA KAKAMAGANG CO LITT. File Ref: 05/4219. DO:

Carry out an assessment of the applicant's system of quality control and procedures manual to ensure that they meet the requirements of CAR 30(2D).

In conjunction with an acceptable manual and facilities inspections using checklists COA 500 and COA 600, as appropriate, assess the application against the criteria of this checklist.

During the inspection(s) interview principal staff to ensure that each one fully understands the content of the applicant's system of quality control and procedures manual, and their implications.

Research should be undertaken with each application to determine what items are fundamental. and to ensure that the applicant has the necessary fundamentals to satisfactorily carry out the tasks for which he or she has applied.

Important: The scope and size of the applicant's proposed organisation will determine the applicability of the checklist items. The content of the checklist is not absolute.

The checklist is provided in the form of questions to respond to, which are not in all cases intended to indicate essential requirements, but to aid the person performing the assessment in addressing the requirements of CAR 30.

Note: As a guide, Aviation Safety Surveillance Program Checklist ASSP 454 refers to the industry standards employed in the various processes.

As applicable, use this checklist in conjunction with:

- COA 200: System of Quality Control Procedures Manual: General
- COA 202: System of Quality Control: System of Computer Control
- COA 500: Manufacture and Maintenance of aircraft
- COA 600: Manufacture and Maintenance of Aircraft Components and Materials.

General

Check that the applicant has access to the following tools and equipment as applicable.

Ultrasonic Inspection

Εq	nipment:	N/1-T
9	A-scan, Digital, C-sean immersion etc.	YEJ
	ncillary Equipment: Probes, leads, stand-off/angle devices etc.	Yzĵ
	andards:	
e	Calibration: • IIW (calibration blocks), mini angle-beam, distance-amplitude, area-amplitude etc.	YEJ
8	Reference Standards: ° Thickness gauge/step wedge, test sample etc.	YES
	emarks: CALIERATION OF EQUIPMENT COMPLETED,	8.4

Yes, No or N/A

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

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CIVIL AVIATION SAFETY ACTHORITY AUSTRALIA

	COA 700
Eddy Current Inspection	Yes, No or N/A
Equipment: • Low frequency, high frequency.	. <u>/</u> ±J
Ancillary Equipment: • Probes, leads, probe guides etc.	7=5
Standards:CalibrationReference standards, test samples etc.	<u>757</u> 755
Remarks: THE MAJORITY OF CALERATION IS PROVIDED BY	SIDEC
CAUBLATION LAB. SOME SPECIAL ISETT É QUIPMENT. RE THE OEM FOR CALIBLATION.	
Radiographic Inspection	Yes, No or N/A
Equipment: • X-ray – low K.V, high KV (should be constant potential/small focal spot) • Gamma ray – source.	765 No
 Ancillary Equipment: Film, film cassettes, lead screens, dosimeters, area monitor, IQIs (Image Quality Indicators), plumb bob, tape measure Film identification characters Characteristic/exposure curves. 	YET YET YES
 Film processing equipment: Immersion tanks, temperature control etc. Chemical storage Safelights, drying cabinet, timing equipment etc. Fresh water rinse facility. 	765 765 765 765
 Viewing equipment: High intensity, fluorescent etc. Magnifying lenses Densitometer. 	75J 75J 75J
Standards: Step-wedge densities, test samples.	765
Local government approval for operation? Sighted approval document.	765

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CIVIL: AVIATION SAFETY AUTHORITY AUSTRALIA

	COA 700
Magnetic Particle Inspection	Yes, No or N/A
 Portable Equipment: Articulated electromagnet, pole pieces etc. Spray ink(s), contrast lacquers etc. 	767
 Fixed Equipment: Magnetic particle bench: ammeter, timer etc. Head stocks, head stock adjustment (pneumatic/manual) Coil, current controls etc. Fluid reticulation system Demagnetising coil (may be included with bench). 	745 745 745 745 745
 Ancillary Equipment: Black light, black light intensity meter, darkened inspection area Centrifuge tube, gauss meter, permanent magnets etc. 	YET
Standards: • Reference standards, Ketos ring, cracked parts etc.	YEJ
Remarks: ALL FRUND SAPISFACTION	
ACTIVALES	
Liquid Penetrant Inspection	Yes, No or N/A
Cleaning: • Appropriate solvent cleaning equipment preferably vapour degrease.	YEJ
Aerosol cans:Penetrant, solvent cleaner, non-aqueous developer.	YE5
Dip tanks: • Penetrant — water wash, post emulsifiable \$PRAY ONLY • Emulsifier — lipophilic, hydrophilic. WATER WASH	No No
Rinse Station: • Coarse water/air spray • Black light illumination.	-765
Developer Application: Ventilation, dry powder applicator. 	Yet
Inspection Station: Black light Black light intensity meter Darkened environment. 	<u>767</u>
Standards: • Reference standards, Eishen panels, cracked parts etc.	YEJ
Remarks: ALL FOUND SAME FACTORY.	

cert approval-checklist-non-destructive testing-coa 700

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COA 700

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Additional Tools and Equipment

Yes, No or N/A

Tools and equipment not covered by this checklist:

NDT CARRES BUT BOROSEDFE MUSPECTIONS FOR BASE MAINSEMANCE

NDT Classes

Determine the appropriate class of the applicant's proposal.

Organisations using NDT methods are divided into 4 classes as follows:

- 1. NDT Class 1' an organisation that has been granted:
 - (a) A Certificate of Approval for the manufacture or maintenance of aircraft or aircraft components; and
 - (b) Approval from the Authority to register NDT personnel in its employ.

2. NDT Class 2' - an organisation that has been granted:

- (a) A Certificate of Approval for the manufacture or maintenance of aircraft or aircraft components; and
- (b) No approval from the Authority to register NDT personnel in its employ.
- 3. 'NDT Class 3' an organisation that has been granted:
 - (a) A Certificate of Approval for the maintenance of Class B aircraft only; and
 - (b) No approval from the Authority to register NDT personnel in its employ.
- NDT Class 4' those organisations not directly involved in the aircraft industry, but which perform NDT on aircraft or aircraft components as a service to the industry.

NDT Class: CLASS 1
Remarks: 40FF LEVEL 3
14 OFF LEVELZ
NO LEVELI
APPROVED BY CAAS CREATIFICATE OF APPROVAL ANI/02
Assessment completion date: $22/9/2006$ Name of person performing the assessment: D HAMSTED

cert approval-checklist-non-destructive testing-coa 700

form 298 04/2999

STANDARD FORM RECOMMENDATION

TO:	Group General Manager – Air Transport Operations G	roup
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FROM: Manager, Sydney Air Transport Field Office (SATFO)

COA No: New Certificate issue, number 1- 21/41

SUBJECT: COA initial issue for SIA Engineering Company Ltd (SIAEC)

Amendments

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1. Details of any changes to the existing approval

This is an initial application for a Certificate of Approval.

Supporting Comments {as applicable}

 Background; SIAEC is a maintenance and overhaul facility located at Changi International Airport, Singapore. 31 Airline Road Singapore is the location nominated for this application. The company currently has 145 approval from EASA approving Base and Line Maintenance on Airbus, Boeing (including B747-100/200/300

& 400 series) and Learjet 31/31A aircraft.

They also hold EASA approval for the following:

Engines – Rolls Royce RB211 700/800 Series

Components - In accordance with the capability list defined in the Company Exposition

Specialised Services - NDT

They also hold FAA Repair Station Approval covering Radio / Instrument and limited Airframe, Powerplant, NDT, Emergency Equipment and Specialised Services.

2. Airworthiness aspects satisfactorily assessed;

All Airworthiness aspects of the application have been assessed and found satisfactory.

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3. Comments on the current and proposed surveillance and monitoring;

An initial inspection of SIAEC facility was carried out as part of the assessment process for the grant of an Australian CAR 30 Certificate of Approval. The inspection revealed that the facility and its operation met and in many areas exceeds industry standards for this type of facility.

On-going surveillance program to be determined by the SATFO after SIAEC have been issued with an Australian CAR 30 Certificate of Approval. Validity period for initial issue of a Certificate of Approval is limited to 12 months.

4. Supporting comments for inspections not required e.g. for new aircraft or ports/locations;

Not applicable to this application.

Comments and implications relating to new/outstanding RCAs, Safety Alerts and Voluntary Undertakings and effect on variation;

Not applicable to this application.

6. Comments regarding changes to the audit schedule;

SATFO to determine the audit schedule. This will be based on the Certificate of Approval Procedures Manual and the Surveillance Procedures Manual requirements.

- 7. Proposed operational conditions or restrictions; Not applicable to this application.
- 8. Proposed future AOC/COA developments; NIL.
- 9. Additional issues that the delegate may not be aware of; NIL.

Impact {as it relates to the request}

- 1. Risk management assessment, including comments against risks associate with this change Not applicable, initial issue.
- 2. Expansion implications and trend indicators Not applicable, initial issue NIL.
- 3. Company personnel and management structure status Staff level of over 250 technical employees plus a comprehensive management structure.
- 4. Operational restrictions or conditions NIL.

Supporting documentation

- 1. COAPM checklists 100, 200, 202, 500 and 700 completed for assessment of this application File reference 06/4219
- 2. Comments when checklists are not supplied/required Not applicable to this application.
- 3. List of existing findings including new and outstanding RCAs, Safety Alerts and Voluntary Undertakings –

Not applicable to this application.

4. Additional documentation pertinent to COA issue;

<u>Correspondence from the Organisation</u> – Completed CASA Form 690 requesting the grant of a CAR 30 Certificate of Approval together with a copy of the SIAEC Maintenance Organisation Exposition (MOE) and the SIAEC Exposition (CASA – Australia Supplement)

<u>Additional data from the SATFO</u> - A 'draft' copy of Certificate of Approval No. 1- 21141

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TC

Recommendation

- Reason for requesting a reduced validity period; Initial issue – Twelve month validity period to comply with the CoA manual
- 2. Recommendation for any operational conditions or restrictions Nil.
- 3. Instructions for distribution of the certificate once signed Forward original of the Certificate to the Sydney Air Transport Field Office, who will on-forward the document to the organisation.

COA initial issue – The **SATFO** is satisfied that the applicant meets, or is capable of meeting, the requirements for the certificate issue in accordance with Regulation 30 of the CARs 1988, and is able to carry out, in a satisfactory manner, the activities to which the application relates, and that all relevant information pertaining to the certificate issue has been forwarded to the delegate for consideration.

Recommended/Net Recommended

Signed:

Name: Don Hamstra

Title: Aviation Safety Auditor

Date: 22/9/2006.

Recommended/Not-Recommended

Signed: (

Name: Barry Laws

Title: T/L A/W, SATFO

Date: 22/09/2006,

Recommended/Not ecommended

Signed:

Name: Ron Bartsch

Title: Manager, SATFO

Date: 23/09/2006

From: Sent: To: Cc: Subject: Steve Purvinas Thursday, 5 November 2009 1:01 PM 'Garniss Suzanne' Executives RE: response [SEC=UNCLASSIFIED]

Hi Suzanne,

The ALAEA has reviewed the CASA and Qantas responses to my complaint and would ask that the ATSB seek further information from those parties that appears to have been overlooked by both CASA and /or Qantas. The first relates to the one washer only being installed. CASA said -

At a subsequent maintenance visit it was reported by the operator's engineers that the mount bolts on a couple of engines were installed with only one flat washer fitted. This in fact is not a defect as the Aircraft Maintenance Manual and the operator procedures allow for the fitment with only one flat washer. It was thought to be the 'normal' operator's practice to fit two washers. No Service Difficulty Report to CASA was required for this matter.

They either were not informed or have forgotten to mention that the one washer installed was the wrong size. There is no Maintenance Manual that endorses the use of incorrect sized washers. By doing so the bolt effectively becomes longer and when torque settings are applied by the Engineers, the bolt would be tightening onto itself to achieve the correct setting. The engine then is not mounted to the correct torque setting on the firewall. This alone could lead to an engine detaching in flight, particularly when all bolts across a number of engines has been involved.

The second of our concerns relates to this answer.

At the same visit, it was reported that on one of the engines, 3 mount bolts had the countersunk washers fitted incorrectly, ie upside down. This was considered a maintenance error and was investigated by the maintenance organisation and the operator. The bolts were removed and examined for damage by the operator, with no significant findings or indications that would suggest any reduced in tensile strength. The bolts were replaced as an extra precaution.

A review was conducted by the maintenance organisation for this maintenance error and it was not conclusive as to how the error occurred. The maintenance organisation sent a reminder to all engineers about the event. The errors were reported at the time of discovery by the operator to the CASA office oversighting the operator.

CASA have not answered the question. Why was this not reported under the SDR program. Yes the operator investigated. The MRO couldn't work out why this happened and Qantas had phoned CASA. No SDR report was submitted. It is mandatory. A submitted SDR report should have lead to a formal investigation by someone other than the operator and warnings via Boeing to all users of this facility. A proper investigation may prevent a disaster by other operators checking that their engines are installed correctly.

CASA have not answered these questions satisfactorily and seem to be supporting/assisting an airline to ignore the CARs.

Can you please advise me asap if the ATSB will be taking any further action.

Cheers Steve Purvinas From: Garniss Suzanne _ Sent: Friday, 30 October 2009 11:40 AM To: Subject: response [SEC=UNCLASSIFIED]

Dear Steve

This is a copy of the responses from CASA and the operator that is proposed to go in the Flight Safety Australia magazine:

Operators Service Difficulty Report system

R200900038

Report narrative:

The reporter expressed safety concerns that one of the operator's aircraft flew for approximately 6 weeks with some of the aircraft's engine mounts incorrectly installed. The mounts were reported to have been installed at another maintenance facility. The reporter also expressed concerns that a Licensed Aircraft Maintenance Engineer had submitted an internal form to report to the operator that a serious defect had been found and that it was required to be reported to CASA via the CASA Service Difficulty Report system. The reporter believes that this report was not then submitted to CASA via their Service Difficulty Report system as the operator assessed the defect as not to meet the Service Difficulty Report requirements.

REPCON comment:

REPCON supplied the operator with the de-identified report. The operator advised that they had received a similar report through their internal reporting system. In accordance with published procedures the information contained in the report was reviewed. The review determined that the nature of the occurrence was such that no Service Difficulty Report was warranted as airworthiness was not affected.

They also advised that a further evaluation has taken place as a consequence of the submitted REPCON and this evaluation confirmed the appropriateness of the original decision.

REPCON supplied CASA with the de-identified report and a version of the operator's response. CASA advised that they have reviewed the issues raised in the REPCON and liaised with the operator. CASA provided the following comments:

The maintenance was carried out by an organisation highly experienced on this aircraft type appropriately approved to do so by CASA (and many other National Airworthiness Authorities). At a subsequent maintenance visit it was reported by the operator's engineers that the mount bolts on a couple of engines were installed with only one flat washer fitted. This in fact is not a defect as the Aircraft Maintenance Manual and the operator procedures allow for the fitment with only one flat washer. It was thought to be the 'normal' operator's practice to fit two washers. No Service Difficulty Report to CASA was required for this matter.

At the same visit, it was reported that on one of the engines, 3 mount bolts had the countersunk washers fitted incorrectly, ie upside down. This was considered a maintenance error and was investigated by the maintenance organisation and the operator. The bolts were removed and examined for damage by the operator, with no significant findings or indications that would suggest any reduced in tensile strength. The bolts were replaced as an extra precaution.

A review was conducted by the maintenance organisation for this maintenance error and it was not conclusive as to how the error occurred. The maintenance organisation sent a reminder to all engineers about the event. The errors were reported at the time of discovery by the operator to the CASA office oversighting the operator.

Suzanne

This message has been issued by the Australian Transport Safety Bureau (ATSB) which is an independent Commonwealth Government Statutory Agency. The information transmitted is for the use of the intended recipient only and may contain confidential and/or legally privileged material. Any review, re-transmission, disclosure, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited and may result in severe penalties. If you have received this e-mail in error please notify the Agency's IT Help Desk, telephone (02) 6274-7900 and delete all copies of this transmission together with any attachments. Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1 Appendix 5.

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MANUAL REFERENCE	- 1	ORIGINATING JOBANORK REF (#		N/A		67 6144/6872
CRIGNATOR'S NAME		DEPARTMENT:		DATE RAISED: 03/06/2008	DATE REQUIRED: 3	uperveor's signature:
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Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

ENGINEERING AUTHORITY CONTINUATION SHEET

EA: SM05724

Significant re-rigging and adjustment was carried out of the inbd flap control system to balance the conflicting requirements of dimension "X" and "Y" ball screw limits as well as Flap lever input forces. The following anomalies now exist with the inbd trailing edge flap system.

- Flap control cable tensions (WFA and WFB) are per AMM limits and the inbd T/E flap ballscrew dimension "X" (FLAP UP POSITION) is approaching minimum limits of 0.600-0.650 inches with the AMM dimension being min 0.540 inches (Inside AMM limits).
- The inbd T/E flap ballscrew dimension "Y" (FLAP 30 POSITION) at ballscrew #3 is 0.530 inches, #4 is 0.530 inches, #5 is 0.500 inches and #6 is 0.500 inches with the AMM min dimension being 0.720 inches (outside AMM limits)
- The flap lever handle requires approx 14 lbs force to engage the 30 UNIT detent, and has a preload which will result in approx 0.5 inch spring back of the lever if disengaged. FLIGHT CREW must assess this anomaly from an operational perspective. The additional forces are not considered detrimental to the mechanism. (The AMM limits for flap lever forces is 4 Ibs in each direction with an additional 7 lbs to engage the detent at flaps 30.)
- The inbd T/E flap indication now indicates a needle width on the low side of the TEE at the 10 and 25 unit position and in the upper portion of the "TEE" when at the full UP position.

ACTION: This EA authorises the continued operation of VH-EBX with the referenced inbd tralling edge flap anomalies subject to the following limitations:

- 1. The operating flight crew are presented with a copy of this EA before flight.
- 2. If accepted by the flight crew the aircraft is operated for only ONE sector on a NON REVENUE
- basis before further rectification is to take place per AMM procedures and Boeing production rigging specifications drawings.
- 3. Delete the NTC issued under EA SM05723

OANTAS

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	APPROVED BY	
PAGE 2 of 2	signature CAR 422S (1)	03-Jun-08 Date ARN 565256

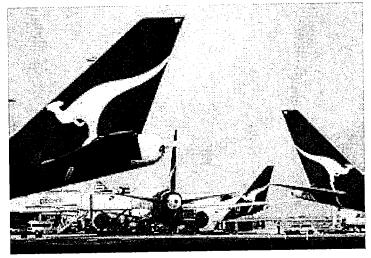
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Overseas crew switches off plane's emerger by a The THE AUSTRALIAN

Overseas crew switches off plane's emergency air

BY GEOFF EASDOWN HERALD SUN MARCH 22, 2007 12:00AM



Deadly ... an overseas maintenance crew sealed off a Qantas jet's back-up oxygen supply. Source: No credit

Emergency oxygen sealed off by ground crew

A330 Qantas plane flies Manila to Sydney

Experts say the bungle could have been fatal

A QANTAS passenger jet flew from Manila to Australia without emergency oxygen because it had been sealed off by Philippines maintenance workers.

The fault was discovered only after the 300-seat A330 Airbus landed at Sydney airport.

Angry pilots and engineers have called for a Senate inquiry into maintenance policies at Qantas, and the airline has ordered an urgent internal investigation.

The plane, on a ferry flight after a major overhaul, was carrying a flight crew and possibly some Qantas staff.

A damaging audit report on poor maintenance of a 747-400 Jumbo in Singapore last year was also revealed this week.

The incidents add to concerns among airline staff and politicians that maintenance standards could fall if an \$11.1 billion bid for the carrier succeeds.

A leaked maintenance report on the Airbus seen by the Herald Sun and dated March 11 says: "On investergation (sic) found crew oxy bottle shutoff value in the closed position and lockwired."

The report notes the valve was opened to the flow position by engineering staff at Sydney's Mascot airport.

Angry pilots and maintenance engineers compared the problem with the situation Prime Minister John Howard confronted in a smoke-filled RAAF Hercules in Iraq at the weekend.

11/3/2014

Overseas crew switches off plane's emergency air | The Australian

"If there had been smoke in the (Qantas) aircraft, the crew would have needed that oxygen," said Capt Mike Glynn, acting president of the Australian International Pilots Association and a qualified A330 pilot.

"This oxygen is meant to be provided to flight crew during an emergency."

Capt Glynn said if the problem was missed in a pre-flight check, it could have led to "potentially dire circumstances".

Steve Purvis, federal secretary of the Australian Licensed Aircraft Engineers Association, said "that plane would have dived in the dirt in an emergency without oxygen in the cockpit".

David Cox, Qantas executive general manager, engineering, said a back-up oxygen bottle had been on the plane.

Both Capt Glynn and Mr Purvis said the oxygen incident and flaws in work carried out on a Boeing 747-400 by a Singapore contractor highlighted the need for a Senate inquiry into Qantas maintenance.

Mr Cox acknowledged that the A330 was flown to Australia with the oxygen valve wired shut.

He said the Airbus, registered VH-EBA, carried only the cockpit crew and "possibly several other staff" on the flight.

The plane had returned from Manila where Lufthansa Technik, an offshoot of Germany's international airline, had carried out a major C-check overhaul.

"No facility is perfect, every facility has problems," said Mr Cox, arguing that it was the diligence with which maintenance issues were managed that was what eventually counted.

He would not discuss how the problem occurred, noting that a "quality resolution was in play with Lufthansa Technik". Pressed again how the problem came about, Mr Cox replied: 'I don't think that's appropriate for me to speculate.

"We are running an investigation with the provider. We will run it down to root cause.

"We will not give up if we are going to use that facility again until the specifics of that issue have been resolved."

Mr Cox said the leaked details involved confidential information from the Qantas audit system and it could become a criminal matter that the document was in someone else's hands.

The oxygen issue is the latest in a series of complaints airline staff have raised about contracting maintenance to low-cost overseas workshops.

A report in The Australian yesterday noted that a Qantas investigation had raised doubts over whether maintenance carried out on its planes overseas was meeting the airline's own standards or those of the Civil Aviation Safety Authority.

Mr Cox said of maintenance contracts: "If the standards are not up to our expectations we will go in and

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

Overseas crew switches off plane's emergency air | The Australian

11/3/2014

deal with that."

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11/3/2014

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Two Qantas jumbos grounded after crack discovered

Two Qantas jumbos grounded after crad

September 27, 2003

Print this article Email to a friend

Qantas has grounded two 747-400 planes after a crack was found in the fuselage of one of the jumbo jets.

A Qantas spokeswoman said the crack was found during a regular heavy maintenance check of the jet and the airline was working with manufacturer Boeing to determine the extent of the damage.

The Civil Aviation Safety Authority (CASA) had been informed of the crack and would be advised of the outcome of an investigation.

"As part of a regular heavy maintenance check we discovered some low level damage to the fuselage of a 747-400 aircraft," the Qantas spokeswoman said.

"We're investigating the cause of that damage and we're working closely with Boeing, the aircraft manufacturer, as we go through it.

"We have advised CASA and we will be keeping them up to date and advising them of the outcome of our investigating."

She said a second Boeing 747-400 purchased and being repainted at the same time as the first aircraft was also being inspected as a safety precaution.

"It is on the ground for a couple of weeks while we inspect that aircraft," the spokeswoman said.

"The first aircraft was already out of service and was going to be for some weeks because it was undergoing its major maintenance check."

She said Boeing planes were designed to sustain such cracks in the fuselage.

"The aircraft is designed by Boeing to be able to sustain that type of damage in between its regular heavy maintenance check," the spokeswoman said.

But she refused to say what caused the crack.

"That will all be part of the investigation, the cause of the damage," the spokeswoman said.

National

- Dogs cock leg on family tree
- Hounds master the foxtrot in hunt æ for self-expression
- International flights delayed two 鎍 hours by jet fuel shortage

World

Clash of cultures 8 looms as Starbucks marches on France



- On hold the US ban
- on phone marketing Oops ... scooters in safety recall 叢

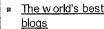
Opinion

- Double Bay, double benefit
- Tips fit for a right royal prince on
- crocs, blueys and the shout
- Life of the Liberal Party

Business

- Playing hardball on trade .
- Stanbroke combatants aw ait ** Tuesday's call on cattle
- Market drops as investors question 斄 global recovery

Technology





SIMply red All keyed up ×

Sport

- Baddeley thw arted with a sub-60 in his sights
- Ferdinand tips United's new crew 188 will help steady the ship
- Brother's tragic death inspires w Matildas star

Entertainment

- Soft-boiled, hard to crack
- Why do people throw their old shoes onto overhead wires so they hang dow n by their laces?
- A hairy area in which to dice with semantics





12 September 2012

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25 Stoney Creek Rd Bexley 2207 NSW Ph: (02) 9554 9399 Fax: (02) 9554 9644 Email: alaea@alaea.asn.au Web: www.alaea.asn.au ABN: 84 234 747 620

Re FAA AD Mandated Scribe line inspections aircraft Boeing 737-400

Dear Peter,

The Australian Licenced aircraft Engineers Association (ALAEA) has recently become aware of a potential safety issue concerning several Boeing 737-400 aircraft that have undergone FAA AD 2010-05-13 mandated fuselage scribe line inspection using an FAA Approved laser measuring system.

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

The Association was contacted by a person involved in the development and use of the only FAA approved measuring system for aircraft for unrestricted return to service.

It was reported to us that an aircraft that is now registered as SE-RET underwent maintenance at the Malaysian Airlines Maintenance facility in January 2012 and as part of that maintenance underwent a fuselage scribe line inspection. The person that made the reports to us was concerned that the measurements used during the inspection were not accurate and that the pre inspection preparation was not done in accordance with the procedures, which would make the inspection results invalid. His considered observation was that the teams performing the inspections were not competent to do so.

A second report was made to us that an aircraft registered as OO-VEP recently underwent maintenance at the ST AEROSPACE facility in Singapore and had a mandatory fuselage skin scribe line damage inspection carried out. It was reported to us that there was a likely possibility that the measuring equipment used was not in calibration at the time of the inspection and had an error margin that if applied to the inspection results would have resulted in the aircraft being requiring extensive repair before further flight.

The ALAEA is bringing these reports to your attention as both of these facilities have CAR30 approvals to carry out maintenance on Australian aircraft. At the time of the scribe inspection aircraft SE-RET carried the Australian registration VH-VBM.

" To undertake supervise and certify for the safety of all who fly. "

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1



Our preliminary investigations suggest that the aircraft SE <u>BET is cur</u>rently operated by Scandinavian Airlines, and OO – VEP may be operated by either Brussels Air or Enter Air. We believe that both aircraft are owned by GE Capital Aviation Services (GECAS). We are writing to these parties to express our concerns.

We are also writing to the European Aviation Safety Agency (EASA) as the aviation regulator responsible for those aircraft as they are currently operated and the United States FAA as the aviation regulator responsible for the approval of the measuring system that was used.

As the information that has been reported to us and the accompanying documentation is quite complex the ALAEA requests that a CASA representative be made available to meet with the Association to discuss the reports that we have been provided with in order to progress an appropriate investigation into the use and practices of scribe line inspections.

We look forward to your prompt attention to this matter.

Yours Sincerely,

Stephen Re <u>Trustee and Technical Affairs</u> Australian Licenced Aircraft Engineers Association



Australian Government

Civil Aviation SafetyAuthority



OPERATIONS DIVISION

TRIM Ref: EF12/8034

15 November 2012

Mr Stephen Re Trustee and Technical Affairs Australian Licenced Aircraft Engineers Association 25 Stoney Creek Road BEXLEY NSW 2207

By Email: alaea@alaea.asn.au

Dear Mr Re

The Civil Aviation Safety Authority (CASA) thanks the Australian Licenced Aircraft Engineers Association (ALAEA) for bringing this matter to our attention. CASA notes that neither aircraft remain on the Australian register. We also note the ALAEA has communicated concerns regarding these aircraft to the European Aviation Safety Agency.

In order to conduct an appropriate investigation CASA will need additional specific information from the ALAEA about the concerns raised by the reporter.

Such information would include the specific nature of the inaccuracies surrounding the measurements and the specific deficiencies in training associated with the inspections at Malaysian Airlines Maintenance; and the specific equipment that it is alleged was used at ST Aerospace and was not calibrated.

In the meantime CASA has used the information provided by the ALAEA to scope surveillance of Malaysian Airlines Maintenance and ST Aerospace CAR 30 approvals.

Yours faithfully

Peter Cromarty

16 November 2012

Peter Cromarty



25 Stoney Creek Rd Bexley 2207 NSW Ph: (02) 9554 9399 Fax: (02) 9554 9644 Email: alaea@alaea.asn.au Web: www.alaea.asn.au ABN: 84 234 747 620

Re: FAA AD Mandated Scribe line inspections aircraft Boeing 737-400

Dear Peter,

Thank you for your attention to this matter.

The ALAEA is more than happy to provide CASA with the additional specific information requested.

Can you please advise us of the most appropriate way to relay this information to CASA. As mentioned in previous correspondence the information is quite in depth and will require some discussion.

Yours Sincerely,

Stephen Re <u>Trustee and Technical Affairs</u> Australian Licenced Aircraft Engineers Association

" To undertake supervise and certify for the safety of all who fly. "

Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1



Australian Government

Civil Aviation SafetyAuthority

DEC 2012

OFFICE OF THE DIRECTOR OF AVIATION SAFETY File Ref: GI12/1221

30 November 2012

Mr Stephen Re Trustee and Technical Affairs Australian Licenced Aircraft Engineers Association 25 Stoney Creek Rd BEXLEY NSW 2207

Email: alaea@alaea.asn.au

Dear Mr

I refer to your letter dated 16 November 2012 addressed to Mr Peter Cromarty, Executive Manager, Operations Division at the Civil Aviation Safety Authority (CASA) regarding Federal Aviation Administration (FAA) Airworthiness Directive (AD) Mandated Scribe line inspections in Boeing 737-400 aircraft.

I am advised that the most appropriate way to relay the specific information is in writing, along with any supporting evidence that is available, to Mr Gerard Campbell, Acting Executive Manager, Operations Division, on email gerard.campbell@casa.gov.au.

Once this information is received by CASA, the Regional Manager for Sydney Region, Mr Roger Chambers, will convene a meeting with the ALAEA and CASA technical specialists to explore the matters raised. This will ensure that CASA can reasonably establish any matters requiring further examination and, where needed, clarify the information provided.

Yours sincerely

Carolyn Hutton Manager Corporate Relations

Trustee 1- Steve Re

Dear Gerald,

I refer to correspondence from Carolyn Hutton 30 November 2012 advising that the most appropriate way to relay specific information regarding our concerns relating to scribe line inspections that have been carried out in offshore CAR 30 facilities is to supply the information to you via email, which will enable a further meeting to be convened with the ALAEA and CASA Technical Experts.

Due to the large amount of information that I have been provided it may be difficult to email all of it, so at this stage I am emailing a sample of that material for assessment. I am willing to email more if required, however it may be easier to provide CASA with a storage device such as a USB drive with all of the information on it when the follow up meeting is convened.

Please let me know what you would prefer.

In relation to ST AREO

I have attached: A technical report from the equipment manufacturer for ST AERO's unit SDMS 1197 Images from SDMS 1197 relevant to the report Images from ST AERO using SDMS 1197

In relation to MAS

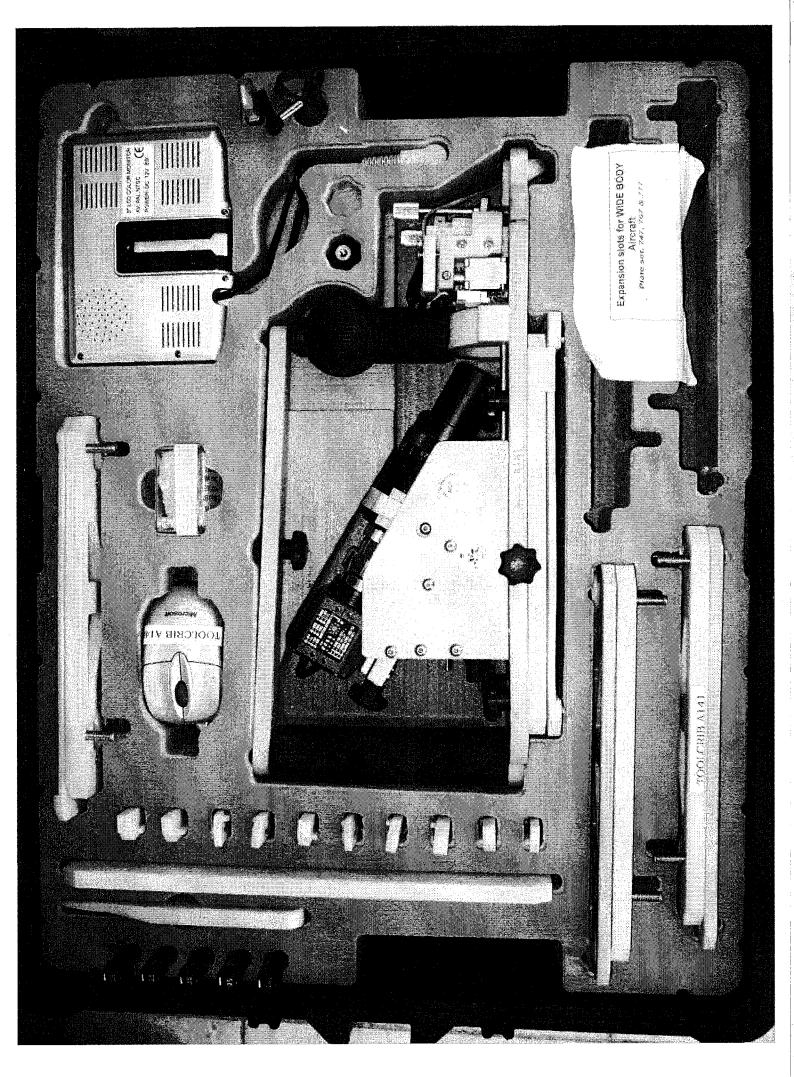
I have attached: A report by the equipment manufacturer on VH-VBM Scribe Line Measurements at MAS 11 March 2012.

Regards

Steve Re

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Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1





Hextronics Pty/Ltd ABN 22 350 386 160

154 Margetts Road, Yea, Victoria 3717. Australia. Postal Address, PO Box 249 Yea, Victoria, 3717. Australia. Email <u>hextron@bigpond.com</u> Tel: +61 (0) 432 438 248

11th March, 2012

Report on VH-VBM Scribe Line Measurements at MAS

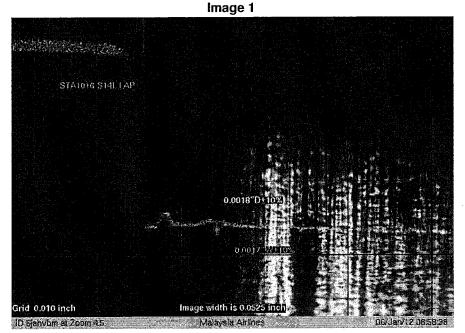
1) Synopsis

Due to concerns that Scribe Line measurements on VH-VBM were not conducted correctly I travelled, (after I examined images stored on the MAS InspectCam in my Workshop) under contract to PARC Aviation Services to MAS, Kuala Lumpur. Personal from MAS conducted a series of Scribe Line measurements while I observed the procedure and results. The observation of the Aircraft and the Inspection procedures showed lack of knowledge in using the SDMS, lack of team work, lack of understanding of the requirements of Boeing and substantial evidence of incorrect surface preparation.

2) Concerns from examining Inspection Results in Australia.

When I examined the results, stored under ID's **VH-VBM** and **6thjanvbm** on the MAS InspectCam at my workshop in Australia prior to travel to MAS; I detected two fundamental types of errors!

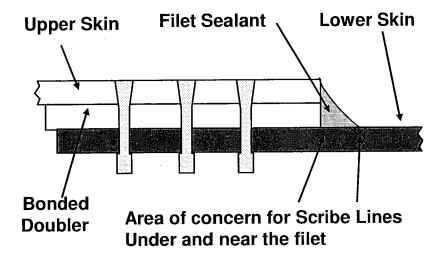
2a) The Image shown below (from ID 6thjanvbm) was captured and measured with a software zoom setting of 4.5. This is the requirement of all Boeing documentation for the 1 thou scribe line limit (0.001"). The image CLEARLY showed that the lens WAS NOT set to match the Software setting of 4.5.



The Step in the Lap Joint is approximately 25 thou, (from the grid on the Image). See Drawing 1 below for what this should be.

Drawing 1

Typical 737 Lap Joint Detail



The above shows the structure of the bonded doubler on a 737 Lap Joint, on the 737-700 each sheet is close to 40 thou in thickness, the step should therefore be in the order of 80 thou, NOT 25 thou as per **Image 1**.

It is my considered opinion that this error should have been rapidly noted by the personal conducting the Inspection. Also QC at MAS should have detected the error.

During training on the use of the SDMS and clearly stated in the operational manuals supplied with the system is the requirement that Hardware and Software Zoom setting MUST MATCH!

This was clearly NOT the case for 7 of the 18 images in ID 6janvbm. This shows a MAJOR operational error in using the SDMS! As a result of these errors the entire Inspection contained with ID 6thjanvbm must be considered invalid.

From The RVS InspectCam Manual (page 12), as supplied to MAS

6.4 InspectCam Measurement Zoom Controls

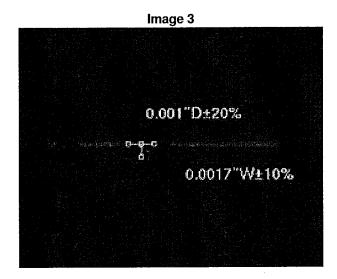
When the InspectCam is interfaced to Laser Measurement Module, the user MUST ensure that the zoom factor on the lens of the LMM matches the zoom factor set on the InspectCam. The zoom factor is displayed central just under the image on the InspectCam screen. (See Appendix B)

The zoom of the lens on LMM can be adjusted by rotating the "lens ring that is located in the centre of the lens. The zoom settings of lens are etched next to the aligning marks. Rotating the ring can zoom in or out to gain the best view to measure the subject. (Zoom factors range from 0.7-4.5) All measurements of 5 thou" (0.005") or less MUST be made with an image stored with "Zoom 4.5". This gives an image magnification factor of about 170.

To change the zoom factor on the InspectCam, press the TAB key, then press the number keys from 1 to 9 to set the zoom factor ranging from 0.7 to 4.5 respectively. Finally, press "Enter to confirm selection. For example, to set zoom factor as 3.0, press "TAB \rightarrow "6 \rightarrow "Enter.

2b) A second fundamental error can be established via the image below. Image 2

To clearly see the problem requires the detail of the measurements to be enlarged.



NOTE:- For those that are not familiar with the measurement features of the SDMS please read **Appendix A** "SDMS Measurement Features" before proceeding!

The errors in the above Image 3 are:-

2b-1)

The measurement shown as 0.0017"W+-10% is in fact not a measurement. The W command was used here as a means of drawing a base line across the image. W stands for Width! The use of the W command to draw a Base Line is INCORRECT! In should be the "B" command. B being for Base line! (Appendix A explains the detail of why "W" cannot be used for a base line).

2b-2)

Regardless of the usage of "W", the selection of the starting point for the W line is too high! The selection must always be at the bottom of the Laser Line. (Appendix A explains why)

2b-3)

The use of "D" is NOT recommended. (The "D" command was used in Image 3; the small square at the junction shows that clearly!)

PLEASE Note. D stands for Depth and on the face of it seems a valid command to use! In practice the use of "D" for depth to measure depth is not as accurate as using "J". (Join)

Appendix B addresses the issue of "B" & "J" with regard to Boeing NDT Part 10, 53-30-01 Rev 16 Nov 2010. There are "Typos" in this document and some contradictions.

2b-4)

The step in the Butt joint is approximately 13 thou, once again the wrong Zoom setting on the LMM.

I am concerned that QC at MAS did not establish that the above problems had occurred.

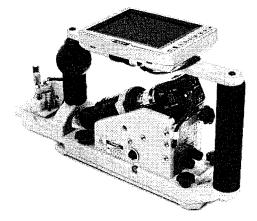
3) Notes about using the SDMS.

The SDMS is an unusual measurement system. It performs the measurement task with repeatable accuracy, but requires a focused approach with a team of at least two personal. The team must be just that, a TEAM THAT WORKS TOGETHER!

The LLM is the key to the SDMS system. It has controls near both front and rear handles.

As shown below.

LMM



The major difficulty in using the LMM is the depth of field at full zoom which gives an image magnification of approximately M=170.

The width of the viewed section of metal when at full Zoom (4.5) is about 52.5 thou. Or about 1.3mm. The depth of field is only 6 thou, or about 0.15mm. **This is very small**. Therefore the LMM MUST be held STEADY! The weight of the LMM is 1.9kgms. Therefore after 10 to 20 mins a rest is needed. Various techniques are taught in the training class to make the task as easy as possible. One MAJOR recommendation pointed out in training is the use of a TEAM to carry out the Inspection. The recommended team is 3 persons. But always no less than 2! The solution is that the team rotate inspection duties! Highly important is that all team members have all the required knowledge and skills to take any role in the Inspection. Critical is that the team member holding the LMM is supported by at least 1 other team member. The technique being "One Holds the LMM, the Other Adjusts as required." The reason that we suggest 3 team members is operational safety. The third person maintains "Situational Awareness". He watches out for cables around feet, etc. His position is recommended always to be close to the InspectCam to assist with pressing the store key! It has been observed that most users have adopted a 3 team approach.

4

4) On Site at MAS, Thursday 1st Feb.

The Inspection was primarily carried out by two MAS personal. One of which I recognised as been in the training course conducted at MAS on July 2 & 3, 2008.

I noted the following during the Inspection!

4a) The **Team was poorly organized** with regard to positing themselves to "work together". The person X holding the LMM must be in the best position with regards to the work surface, Person Y assisting must be able to adjust either front or rear controls.

4b) This became very obvious during the Inspection. For person X holding the LMM, and person Y assisting with adjustment, they require to talk to each other to do this. No such interaction was occurring. They require very close physical cooperation. It was not happening.

4c) Hence the Inspection produced results at a slow rate. I then "suggested" various changes to the procedure. They were very slow to take up the suggestions! When it came to using the measuring software on a captured image the same problems arose as per the 6th Jan Inspection. Errors in setting a "Base Line" via a "W" command. This was quickly fixed when I stated "Use B". But slower when I stated "use J", not D! It is my considered opinion that these two operators have little or no experience working as a team with the SDMS. The difference in knowledge level between to two people was large. This prevented any chance of a time effective Inspection!

4d) In all fairness to the personal concerned, allow me to point out the following observations:-

The "Operational Errors" can easily be corrected by further intense training. The functioning as a team is not so easy. These people must have the chance to develop team skills. The teams need to be fixed. Both members need similar skill levels. I see the failure more as one of management in nature. The teams cannot be expected to retain skills without periodic use of those skills. I feel the whole issue of Scribe Inspection is not treated by MAS with the required level of seriousness.

5) Results for the InspectCam of VH-VBM as conducted on Thursday, 1st Mar.

The results for this Inspection are VALID, as I took steps to ensure each required Scribe was Captured and measured Correctly. This required intervention at some parts of the Inspection. PLEASE REFER TO (6b) BELOW REGARDING LRTS.

6) Other observations relating to the Aircraft VH-VBM and MAS

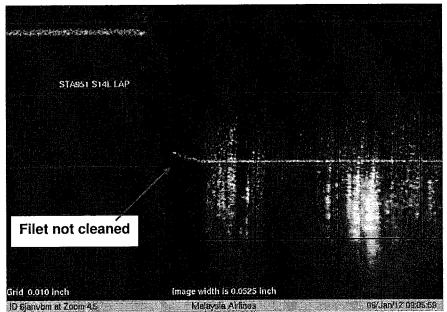
6a) Surface Preparation.

Boeing has published many documents and conducted many Training & Information Seminars relating to the Scribe Line Problem.

The industry should by now be very aware of the issues and procedures to follow.

The first and most important step in Scribe Line Inspection is Surface Preparation. This was clearly not carried out correctly at MAS for the Jan 6th Inspection. The area that MUST be observed very closely, is right up to the edge of the Lap Joint! The Sealing Filet must be removed. The Image below shows that was not the case. The image clearly shows a substantial amount of the filet still in place. This Image also shows, once again; incorrect setting of the Hardware Zoom. The image magnification should be about 4.3 times larger. This would give a filet of at least 18 thou width. Plenty of room to hide a Scribe Line! On all the areas Inspected on Thurs 1st Mar I carefully checked for this problem. All were clean. The question remains, how was the rest of the Aircraft? This is a concern!

Image 4



Areas of the Butt points clearly showed a high level of surface working. I believe that NONE of the surfaces that I saw on the 1st Mar were the same surfaces as per the Jan 6th Inspection. Very substantial "Cleaning" had occurred since 6th Jan.

Image 5



This image shows a high level of "Surface Work". The surface shows that extensive rubbing has occurred, most likely with Scotch Brite. The "Land" is well rounded, a feature of Scotch Brite.

From Boeing Document NDT Part 10, 53-30-01 rev 16 Nov 2010.

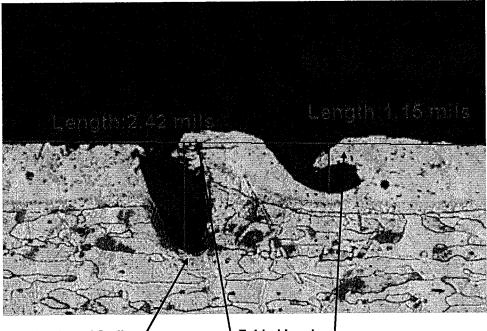
Page 1, Section 3, Part A (1)

Note:

Remove paint and sealant from the inspection surface so as to not damage the part. Do not use abrasives such as abrasive paper or Scotch Brite pads. The use of Abrasives can cause the scribe line inspection or depth measurement to be incorrect. etc.

6

Image 6



Contamination of Scribe Impossible to Clean Folded Lands

The above image shows why Scotch Brite etc are such a problem. They cause the lands to collapse and fold over. This can trap contaminates in the scribe line as well as moisture. Also the folded lands can prevent the Laser seeing the true bottom. Therefore the depth reading will always be too low! No Scotch Brite is ALWAYS covered in detail during training on the SDMS.

6b) I have carefully examined ALL images that I have from VH-VBM, I consider that the surfaces were rubbed with an abrasive PRIOR to the first Inspection as stored in ID 6thjanvbm. From examining the detail of the surfaces I believe the material used was Scotch Brite, most likely the Brown (dark red) Grade. This is a very coarse grade! (I hold 1000's of images showing surface damage from many tools and Scotch Brite)

I am concerned with the surface work practices used at MAS. From various Boeing documents come the following directives:-

737 AMM 51-21-21

-Says to use abrasive pads

- Do NOT use abrasives for scribe inspection zones not yet inspected for scribes
- Abraded surfaces can hide scribes and or prevent an inaccurate depth measurement

Areas that have be abraded have limited options

- LRTS
- Repair

On the basis of the above I would consider that NO SCRIBES found on VH-VBM can fall into the "allowable damage' category. This would mean VH-VBM is LRTS.

7) Other Observations

I cannot verify the following statements; they were passed on to me during the visit.

"MAS stated that the SDMS is only for Lap Joints". WRONG!

From Boeing Document NDT Part 10, 53-30-01 rev 16 Nov 2010.

Page 1, Section 1, part A.

"Use this procedure to find scribe lines and measure scribe line depths in the fuselage skin and butt joint splice plates."

"MAS measured 1.6 thou with the SDMS but the Optical Micrometer measured 1 thou, they wrote up 1 thou"

The Optical micrometer is only approved by Boeing for the 6 thou limit!

Conclusions.

Operational and Procedural errors were clearly seen by me during my observations of the stored InspectCam images prior to my visit and while on site at MAS. I believe the basis for these errors go far beyond operator competence and are management questions! I saw no evidence of effective QC oversight addressing these issues.

The major areas that need addressing are:-

a) Retraining to ensure correct operational produces are followed with both the LMM and the measurement Software.

b) Team skills must be developed to allow time effective and accurate work.

c) The entire question of Surface Preparation must be addressed at MAS.

d) QC needs to address why they did not detect the problems

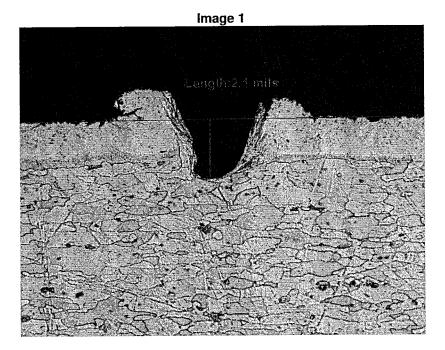
hussell Healter

Russell P Hexter C P Eng, FRMIT Director of Engineering, Hextronics P/L

Appendix A

SDMS Measurement Features

1) Boeing Requirements for Scribe Line measurements.



The above is a cross sectioned Scribe Line, showing the damage below the surface. Note this scribe goes below the Protective Cladding and down into the pure Aluminum. Boeing requires the depth of the Scribe BELOW THE UNDAMAGED SURFACE. Hence in the above image a "Base Line" has been drawn. This was a flat sheet of Aluminum. Easy! In practice on an Aircraft nearly all surfaces have a curvature! This must be allowed for.

The solution was to be able to draw a Base Line on the stored InspectCam Image.



Image 2

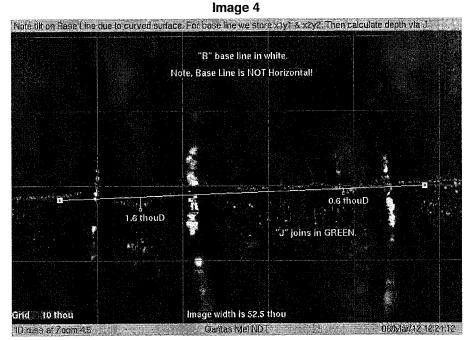
Above is the RAW captured Image, shows 3 "Lands with damage between them". The Base line is required to join undamaged surfaces. Hence we draw the Base Line as shown below. Image 3

WHY BIMUST BE USED FOR BASE LINE

The damage that is of concern is always BELOW this Line!

Note that this line is NOT drawn as a vector, but as a "stair case approximation". This is due to using a pixel based display screen. When we draw a Base Line we store X1 Y1 & X2 Y2, This allows the internal mathematics to be preformed as if the Base Line was a true vector.

The recommended procedure now is to use "J" to join up to the base line.



Note that a "J" line just touches the base line, no small square is shown.

10

2) Boeing requires the use of a Base Line for all Scribe Line Measurements.

From Boeing Document, NDT Part 10, 53-30-01 rev 16 Nov 2010. (The latest rev)

Page 3, Section F Part (5):-

Draw a base line as shown in Fig. 9 as follows:

(a) Use the "B" function and put the cursor on the left hand side of the scribe line on the surface of the part that is not damaged and do function"3".

3) Further Notes to Image 4

a) When we use "J" we still draw the line to the "stair case approximation", BUT the result is based on vector maths. Not the approximation!

b) The selection points are ALWAYS the bottom of the laser line. This is where the interference pattern that we see as the laser line is hitting the surface. Never do we use the middle or top of the line!

4) Using "W" to draw a Base Line.

The InspectCam can also measure width. Width on the stored image is the linear distance in the Y direction. The "W" line is ALWAYS drawn HORIZONTAL, as this is the true width!

Using a "W" as a base line would result in the following!

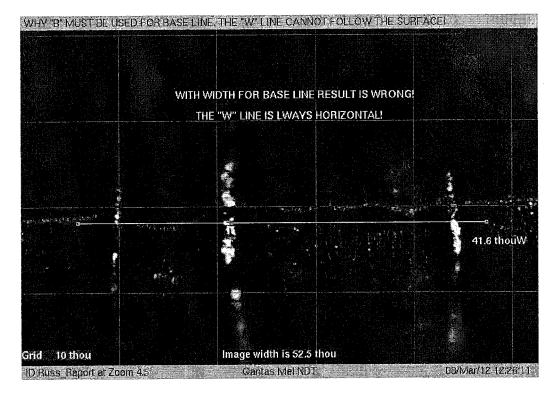


Image 5

This line cannot be used to reference the damage of the Scribe Line!

END APPENDIX A

Appendix B

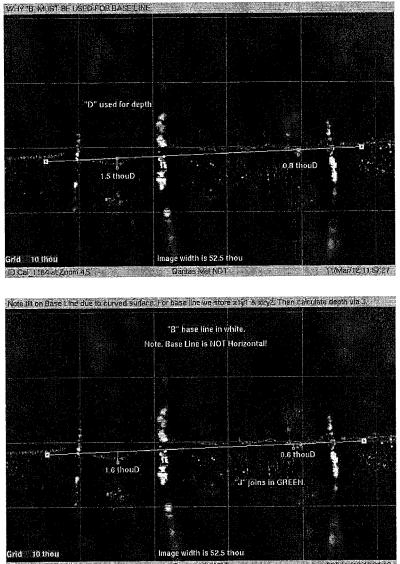
"D" & "J" Boeing NDT

The Boeing Document, **NDT Part 10, 53-30-01 rev 16 Nov 2010** can cause some problems and confusion. Mainly with the use of "J" and "D". While the document is consistent with the use of "B" for base line, it is NOT consistent with the use of "D" & "J". For example

Page 2c, part (10) Press the "J" key for the join function. (This is for a depth measurement)

Page 3, Section F, part (6) Do a "D" or depth function. (This is ALSO for a depth measurement)

To clear the confusion we always train to use "J".



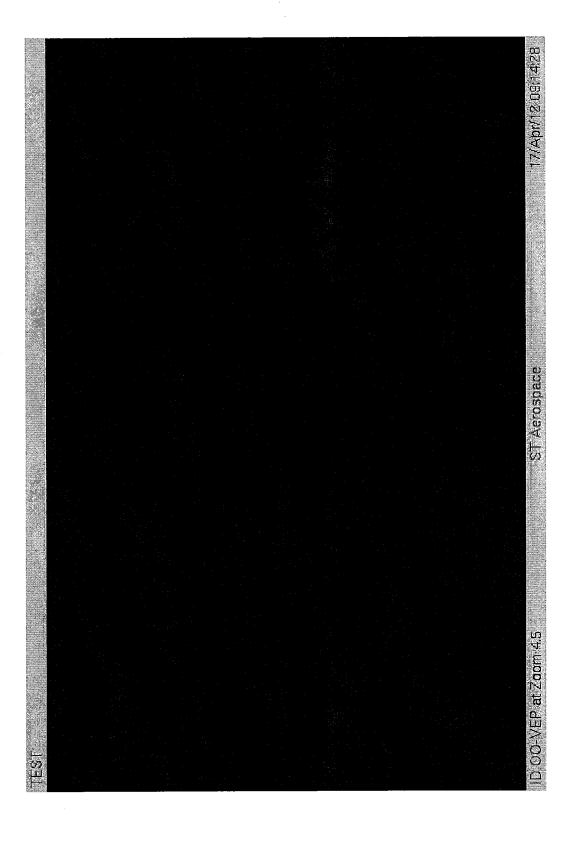
ID russ at Zoom 4.5 Qantas Mel NDT DB/Mar/12 12:21:12

As can be seem from the above two samples, the top one with "D", the lower with "J", only a small difference. But "J" is more accurate!

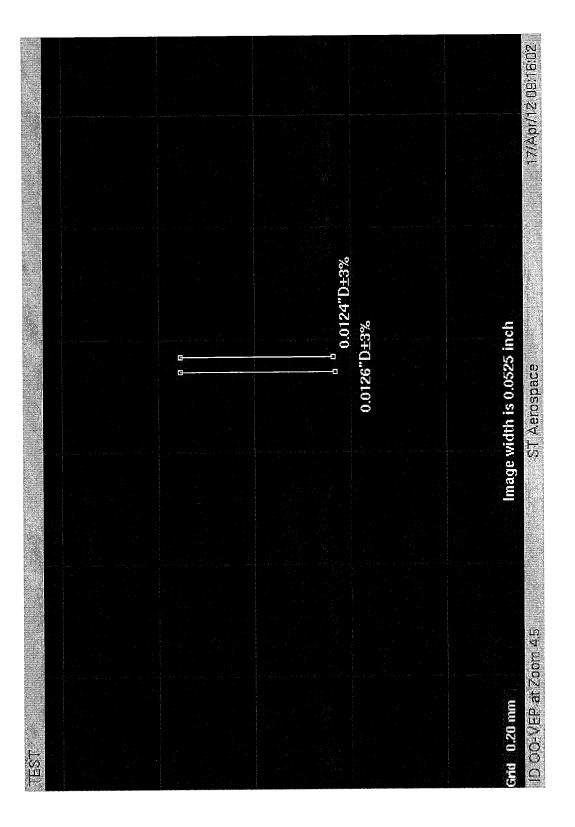
END OF APPENDIX B

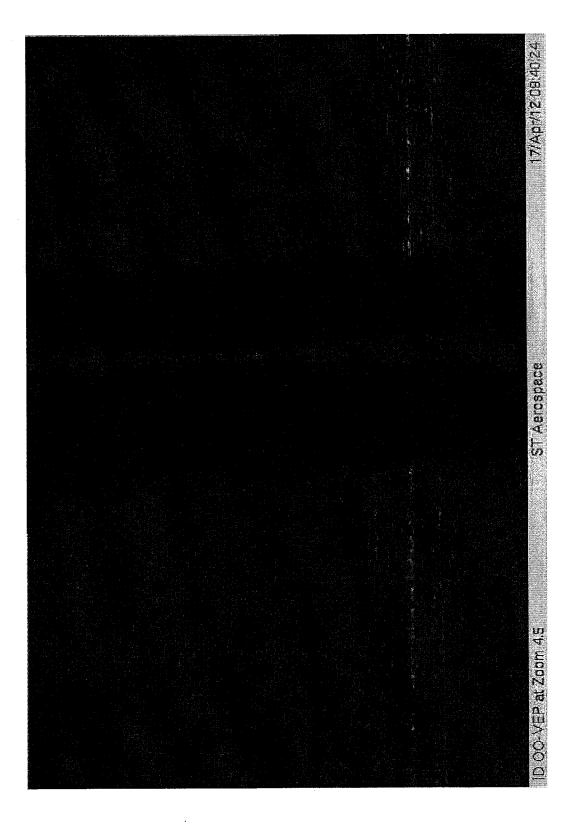
Qantas' future as a strong national carrier supporting jobs in Australia Submission 2 - Attachment 1

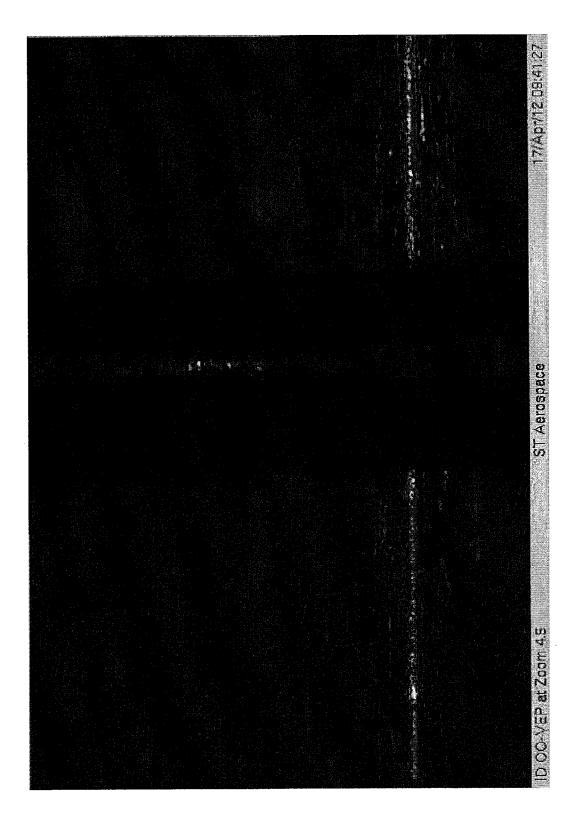




3......











STTR Pty/Ltd

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7th June, 2012

Report on SDMS 1197

To Aaron Chua SAB - BLS TOOLCRIB Address : ST AEROSPACE ENGINEERING PTE LTD 600 West Camp Road Seletar Aerospace Park Singapore 797654

Dear Aaron,

The following details the work on the SDMS S/N 1197 carried out between 18th May and 6th June.

1)

The system had a report of a potential "Electrical Safety' problem. This required a through check and series of tests. Under Australia law the tests included Electrical Safety and Electro-Static Discharge Tests. The InspectCam also had to be opened (Main & Monitor panel removed) to ensure that all wiring was correct and firmly locked/tighten/soldered.

The system passed all tests with no problems noted.

2)

The system also had a report of "Calibration Failure". An image was supplied by ST Aerospace Eng showing a measurement of 12.5thou being obtained, instead of 13.5 thou (plus tolerances). This section of work proved to be time consuming!

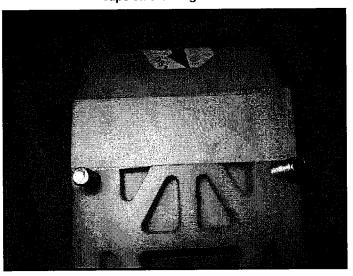
a)

On first testing the Calibration Block S/N 197 was found to be faulty! It should have been 13.5 thou (WORST CASE +/- 3%) It was measured to be 14.1 thou! This is an error of over +4%. The block showed no sign of physical damage, but on close inspection it was found that the 13.5 thou steel wire had a "bow" in it, lifting it about 0.6 thou of the surface. The block cannot be easily repaired and was therefore destroyed! (As per the internal QC requirements of both STTR and Hextronics).

Cylinder Diameter = 13.5 thou	Lifted	00
Calibrated Block Cross Section	\leq	00

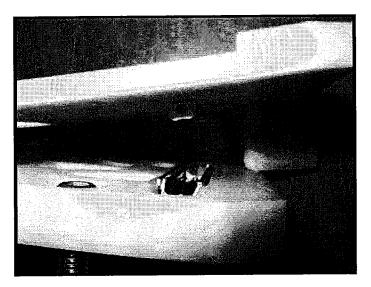
A new Calibration Block was manufactured, S/N 421.

b) When we tried to make a Calibration measurement we found that the "Dings" Plate set had a broken Slider. See below!



Tape on the Dings Plate!

The Broken Slider!



I have sought feedback from ST Aerospace as to whether there are any reports the system was dropped! No reply! The Slider was replaced!

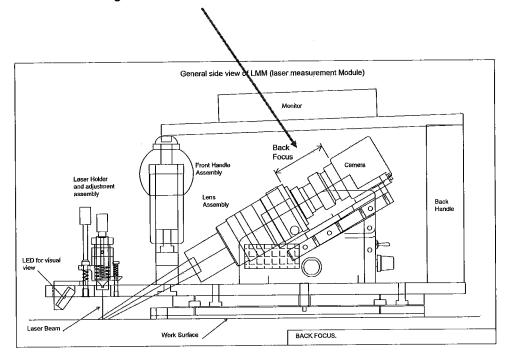
c)

The SDMS system 1197 was then tested against the internal standards held by STTR. The result was poor. It showed that the LMM was consistently measuring our standard Calblock at about 12 Thou.

While the new Calibration Block was in production the LMM was examined to find the potential cause for the error. This was found in the "Back Focus" dimension!

d) Back Focus

Please see drawing below. Back Focus,



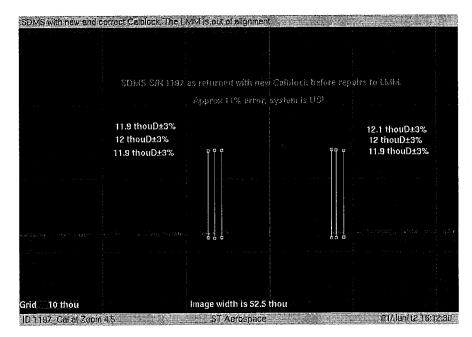
From our internal notes this should have been 50.4mm, I measured 50.9mm on the system as returned. Unfortunately it is not simple to just change this back to 50.4mm. Although we measured 50.4mm during production of this system, the actual dimension is much more critical. It required the lens/camera assembly to be put into our alignment jig! We decided to wait for the new Calibration Block before doing this.

On close Inspection it was the Camera that had moved backwards by about 0.5mm. But I found the lock screw to be tight! This suggests a drop or VERY hard knock!

With the new block the following image was obtained.

See next page!

First result with new calblock 421. This is SDMS system AS RETURNED! The Calblock 421 was known to be 13.5 thou! Taking 12 thou as the average for the 6 measurements below we have a measurement error of approximately of 11%.



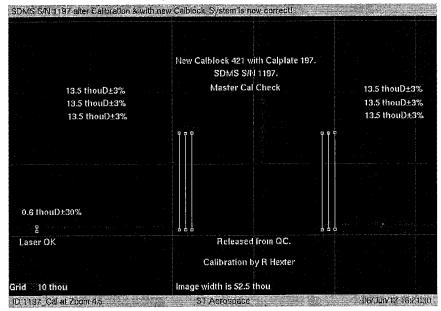
In this condition the system is Un-Serviceable! And should not be used for an Inspection!

The Lens/Camera was removed, placed in a jig and realigned!

Then the LMM was re-assembled, and a Calibration check preformed.

Result is below!

After repair with New CalBlock 421!



4

-5-

e) The entire system was cleaned and all required Calibration documents prepared.

They are attached to this email.

MOST IMPORTANT!

PLEASE CHECK THAT THESE DOCUMENTS MEET THE REQUIREMENTS OF ST AEROSPACE!

Total time on the job, about 30 hours!

Russell P Hexter **Director of Engineering**

Attachments!

1) Certificate of Conformance

2) Certificate of Conformity

3) Calibration Statement for calblock 421

4) Metrology Report.

Trustee 1- Steve Re

From: Sent: To: Cc: Subject: Attachments:	Trustee 1- Steve Re Wednesday, 20 February 2013 4:06 PM 'HUTTON, CAROLYN' Federal Secretary Scribe Line Inspections 20121205_ICI_CASA_Carolyn Hutton_Steve Re_Response to 16 November 2012 Letter.pdf; 20121130 email Gerard Campbell Scribe lines.pdf
--	--

Dear Carolyn,

I Refer to your advice on 30 November 2012 in relation to providing CASA with specific advice regarding scribe line inspections.

That same day I provided material via email to Gerard Campbell as advised, I am yet to receive any acknowledgment or invitations to meet to provide more data.

As almost three months have now passed are you able to advise me on CASA's actions to date in relation to this matter.

Regards

Steve Re

This e-mail and any files transmitted with it are privileged and confidential information intended for the use of the addressee. The confidentiality and/or privilege in this e-mail is not waived, lost or destroyed if it has been transmitted to you in error. If you have received this e-mail in error you must a) not disseminate, copy or take any action in reliance of it; b) please notify the ALAEA immediately by return e-mail to the sender; and c) please delete the original e-mail.



Australian Government

Civil Aviation SafetyAuthority



OPERATIONS DIVISION

File Ref: GI12/1221

18 April 2013

Mr Stephen Re Trustee and Technical Affairs Australian Licenced Aircraft Engineers Association 25 Stoney Creek Road BEXLEY NSW 2207

Email: alaea@alaea.asn.au

Dear Mr Re

I refer to your correspondence dated 16 November 2012 to the Civil Aviation Safety Authority (CASA) in relation to the Federal Aviation Administration (FAA) Airworthiness Directive (AD) Mandated Scribe line inspections in Boeing 737-400 aircraft, and to subsequent correspondence of 30 November 2012.

As a result of investigations into this matter, CASA understands that the inspections were ultimately carried out appropriately prior to release of the aircraft from maintenance. CASA will be reviewing further material from the maintenance organisations and the equipment manufacturer to determine if any breaches of civil aviation regulatory requirements have occurred.

In relation to Malaysian Airlines, CASA is conducting surveillance within the Part 145 assessment process. Additional surveillance will be conducted on the specific issues that you have raised. CASA will take any responsive action that may be necessary and appropriate under the circumstances.

Thank you for bringing these matters to CASA's attention.

Yours sincerely

Gerard Campbell

Smith-Roberts, Jennifer

From: Sent: Subject: Attachments:	CHAMBERS, ROGER Wednesday, 2 January 2013 10:03 AM FW: FAA AD Mandated Scribe Line inspection on 737-400 Aircraft [SEC=UNOFFICIAL] Tech Report 1197.pdf; Tape with pointer.jpg; Linear Slider broken.jpg; DSCF9745.JPG; DSCF9744.JPG; Rvs_OO-VEP@120417_091428.jpg; Rvs_OO-VEP@120417_ 091428m00.bmp; Rvs_OO-VEP@120417_094024.jpg; Rvs_OO-VEP@120417_094127.jpg; Final Report on VH-VBM-rev1.pdf

UNOFFICIAL

Peter

Please write to both companies detailing the nature of the concerns and requesting a formal response to the actions.

The corro indicates that the complainant has already written to the companies however I would not send the letters just pull the relevant details and keep the reporter anonymous.

If following their response breaches of CAR 30 are identified please issue NCNs and if required ASRs through the relevant oversighting office.

Please record the activity as a Level 2 surveillance event in Sky Sentinel.

Corro – I suggest a response to the ALAEA thanking them for the additional information and advising that CASA has ongoing enquiries into this matter. Also advise them that the information provided is sufficient for our enquires at this time and that there is no requirement for a meeting with the ALAEA.

Thanks

Roger Chambers

From: DENBY, SIMON
Sent: Monday, 3 December 2012 11:41 AM
To: CHAMBERS, ROGER
Cc: CASA Operations Correspondence
Subject: FW: FAA AD Mandated Scribe Line inspection on 737-400 Aircraft [SEC=UNOFFICIAL]

UNOFFICIAL

Roger,

More information in relation to the ALAEA Scribe line issue.

Regards

Simon.

From: CAMPBELL, GERARD J Sent: Monday, 3 December 2012 10:25 AM

To: DENBY, SIMON Subject: FW: FAA AD Mandated Scribe Line inspection on 737-400 Aircraft [SEC=UNOFFICIAL]

UNOFFICIAL

From: CAMPBELL, GERARD J Sent: Friday, 30 November 2012 4:24 PM To: SINGH, NICK Cc: Huang, Yi-Ching _____ Subject: FW: FAA AD Mandated Scribe Line inspection on 737-400 Aircraft [SEC=UNOFFICIAL]

UNOFFICIAL

From: Trustee 1- Steve Re Sent: Friday, 30 November 2012 2:44 PM To: CAMPBELL, GERARD J Subject: FAA AD Mandated Scribe Line inspection on 737-400 Aircraft

Dear Gerald,

I refer to correspondence from Carolyn Hutton 30 November 2012 advising that the most appropriate way to relay specific information regarding our concerns relating to scribe line inspections that have been carried out in offshore CAR 30 facilities is to supply the information to you via email, which will enable a further meeting to be convened with the ALAEA and CASA Technical Experts.

Due to the large amount of information that I have been provided it may be difficult to email all of it, so at this stage I am emailing a sample of that material for assessment. I am willing to email more if required, however it may be easier to provide CASA with a storage device such as a USB drive with all of the information on it when the follow up meeting is convened.

Please let me know what you would prefer.

In relation to ST AREO

I have attached: A technical report from the equipment manufacturer for ST AERO's unit SDMS 1197 Images from SDMS 1197 relevant to the report Images from ST AERO using SDMS 1197

In relation to MAS

I have attached: A report by the equipment manufacturer on VH-VBM Scribe Line Measurements at MAS 11 March 2012.

Regards

Steve Re

This e-mail and any files transmitted with it are privileged and confidential information intended for the use of the addressee. The confidentiality and/or privilege in this e-mail is not waived, lost or destroyed if it has been transmitted to you in error. If you have received this e-mail in error you must a) not disseminate, copy or take any action in reliance of it; b) please notify the ALAEA immediately by return e-mail to the sender; and c) please delete the original e-mail.

3

ppendix

QANTAS AIRWAYS LIMITED ABN 16 009 661 901

PRELIMINARY MONTHLY TRAFFIC AND CAPACITY STATISTICS JULY 2009

Summary of Traffic and Capacity Statistics

Month of July 2009

July Group (comprising Qantas Domestic, QantasLink, Jetstar Domestic, Qantas International and Jetstar International) passenger numbers increased by 4.6 percent over the previous year. RPKs decreased by 2.1 percent and ASKs were down 2.8 percent, resulting in a revenue seat factor of 82.9 percent, which was 0.7 percentage points higher than the previous year.

Total Domestic (Qantas, QantasLink and Jetstar Domestic operations) yield excluding foreign exchange for the financial year to July 2009 was 12.3 percent lower when compared to the same period the prior year. Total International (Qantas and Jetstar International operations) yield excluding foreign exchange for the financial year to July 2009 decreased by 21.4 percent compared to the same period the prior year.

Recent Developments

On 19 August, Qantas announced a profit before tax of \$181 million for the full-year ended 30 June 2009.

On 20 August, Qantas welcomed the announcement by the Australian and New Zealand Governments regarding improvements to aviation passenger facilitation between the two countries. Qantas Group Executive Government and Corporate Affairs, Mr David Epstein, said "The ultimate goal should be to enable travel between domestic terminals and from more airports on both sides of the Tasman."

Update on Hedging and Foreign Ownership

Qantas has hedged 80 percent of its expected fuel requirement in 2009/10 at a worst-case crude oil price of US\$89 per barrel including option premium. At current rates, Qantas has 78 percent participation in falling oil prices for the remainder of the year.

While not required under ASX Listing Rule 3.19, Qantas confirms that a subsequent reconciliation undertaken following the update of foreign ownership on 30 June 2009 found the level of foreign ownership to be 46.9%. Qantas remains subject to an aggregate foreign ownership limit of 49%.

QANTAS AIRWAYS LIMITED ABN 16 009 661 901 PRELIMINARY MONTHLY TRAFFIC AND CAPACITY STATISTICS

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		JULY 2009)			
	0000140	Month	Channe	Finano 2009/10	cial Year to Da 2008/09	
Qantas Domestic	2009/10	2008/09	Change	2009/10	2000/09	Change
Passengers carried ('000)	1,433	1,432	0.1%	1,433	1,432	0.1%
Revenue Passenger Kilometres (m)	2,128	2,141	(0.6)%	2,128	2,141	(0.6)%
Available Seat Kilometres (m)	2,549	2,608	(2.3)%	2,549	2,608	(2.3)%
Revenue Seat Factor (%)	83.5	82.1	1.4 pts	83.5	82.1	1.4 pts
QantasLink						
Passengers carried ('000)	367	363	1.2%	367	363	1.2%
Revenue Passenger Kilometres (m)	260	268	(3.2)%	260	268	(3.2)%
Available Seat Kilometres (m)	364	368	(1.2)%	364	368	(1.2)%
Revenue Seat Factor (%)	71.4	72.9	(1.5) pts	71.4	72.9	(1.5) pts
Jetstar Domestic						
Passengers carried ('000)	734	726	1.1%	734	726	1.1%
Revenue Passenger Kilometres (m)	841	834	0.8%	841	834	0.8%
Available Seat Kilometres (m)	1,031	1,040	(0.9)%	1,031	1,040	(0.9)%
Revenue Seat Factor (%)	81.6	80.2	1.4 pts	81.6	80.2	1.4 pts
Qantas International						
Passengers carried ('000)	520	686	(24.2)%	520	686	(24.2)%
Revenue Passenger Kilometres (m)	4,544	5,052	(10.1)%	4,544	5,052	(10.1)%
Available Seat Kilometres (m)	5,309	5,992	(11.4)%	5,309	5,992	(11.4)%
Revenue Seat Factor (%)	85.6	84.3	1.3 pts	85.6	84.3	1.3 pts
Jetstar International						
Passengers carried ('000)	303	154	96.7%	303	154	96.7%
Revenue Passenger Kilometres (m)	807	689	17.1%	807	689	17.1%
Available Seat Kilometres (m)	1,072	915	17.3%	1,072	915	17.3%
Revenue Seat Factor (%)	75.2	75.3	(0.1) pts	75.2	75.3	(0.1) pts
Jetstar Asia						
Passengers carried ('000)	157	-	-	157	-	-
Revenue Passenger Kilometres (m)	218	-	-	218	-	-
Available Seat Kilometres (m)	287	-	-	287	-	-
Revenue Seat Factor (%)	76.0	-	-	76.0	-	-
Total Group Operations						
Passengers carried ('000)	3,514	3,361	4.6%	3,514	3,361	4.6%
Revenue Passenger Kilometres (m)	8,797	8,984	(2.1)%	8,797	8,984	(2.1)%
Available Seat Kilometres (m)	10,612	10,923	(2.8)%	10,612	10,923	(2.8)%
Revenue Seat Factor (%)	82.9	82.2	0.7 pts	82.9	82.2	0.7 pts

Notes

2

Any adjustments to preliminary statistics will be included in the year to date results next month. Where figures have been rounded, discrepancies may occur between the sum of the components of items and the total and in percentage changes which are derived from figures prior to rounding.

The number of passengers carried is calculated on the basis of origin/destination (ie. one origin/destination journey represents one passenger regardless of the number of stage lengths undertaken).

Key

(m): Millions

RPKs: The number of paying passengers carried multiplied by the number of kilometres flown

ASKs: The number of seats available for sale multiplied by the number of kilometres flown

QANTAS AIRWAYS LIMITED

ABN 16 009 661 901

PRELIMINARY MONTHLY TRAFFIC AND CAPACITY STATISTICS

JULY 2013

Summary of Traffic and Capacity Statistics

Month of July 2013

Qantas Group passenger numbers for July 2013 increased by 1.9 per cent from the previous year. Group ASKs decreased by 0.4 per cent and RPKs decreased by 0.6 per cent, resulting in a revenue seat factor of 79.8 per cent which was 0.2 percentage points lower than the previous year.

ASKs for QantasLink were higher than the prior corresponding period, mainly due to the reconfiguration of nine B717 aircraft.

Qantas Group yield was lower than the prior corresponding period. Group Domestic yield (comprising Qantas Domestic, QantasLink and Jetstar Domestic) was flat.

Qantas International yields were lower than the prior corresponding period due to continued market capacity growth and competitor response to the Qantas Emirates partnership.

Recent Developments

On 29 August 2013, Qantas Group announced the sale of its wholly owned subsidiary Qantas Defence Services (QDS) to Northrop Grumman Australia, a subsidiary of Northrop Grumman Corporation, for a price of \$80 million for the business and other related assets. The proceeds from this sale will be realised in 2013/14.

On 29 August 2013, Qantas previewed the new interiors that will feature on all 30 of the Airbus A330 fleet from late 2014, including Marc Newson-designed business suites with lie-flat beds. Ten A330-300s for Qantas International will also feature new economy cabins, and 20 A330-200s for Qantas Domestic will see their economy seats refurbished.

On 28 August 2013, Qantas and MasterCard released the new Qantas Frequent Flyer membership card, expanding its uses to include storing foreign currency, accessing cash worldwide via ATM withdrawals and earning points on spending in Australia and overseas.

On 23 August 2013, Jetstar Hong Kong's application to the Air Transport Licensing Authority in Hong Kong was gazetted and progressed to a public consultation process. Jetstar Hong Kong will continue to work with the relevant authorities throughout the process, and anticipates approval by the end of 2013.

On 15 August 2013, QantasLink relocated to Qantas' exclusive domestic terminal at Sydney Airport, Terminal 3. Customers travelling to and from Sydney Airport will enjoy smoother connections, reduced check-in times and improved access to Qantas' premium lounges.

On 14 August 2013, Qantas International announced improvements to its network including a new route, Perth-Auckland (to be offered on a seasonal basis), upgrading the number of return Sydney-Hong Kong A380 services to five per week, and increasing Brisbane-Los Angeles frequency to daily.

On 24 July 2013, Qantas Domestic announced it had secured a three year air services agreement with the \$10 billion Roy Hill Iron Ore project in Western Australia.

QANTAS AIRWAYS LIMITED ABN 16 009 661 901 PRELIMINARY MONTHLY TRAFFIC AND CAPACITY STATISTICS

JULY 2013

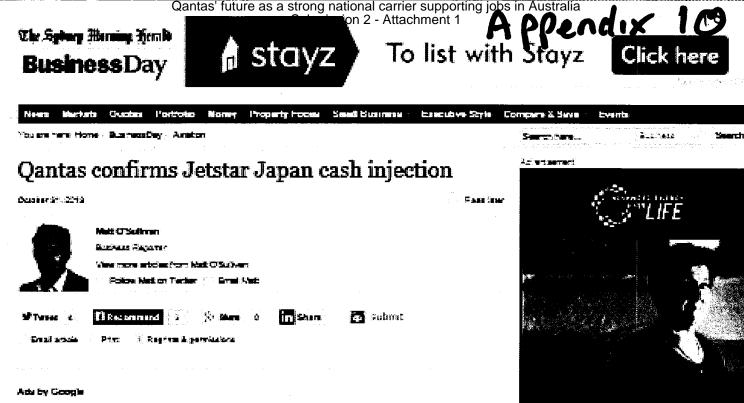
Month Financial Yeak Zili Yia Zili Yia <thzili th="" yia<=""> Zili Yia Zili Yia</thzili>		Month Financial Year to Date					
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Passengers Carried (000) 1,454 1,481 (1.8)% 1,454 1,481 (1.8)% Revenue Passenger Kilometres (m) 2,193 2,254 (2.7)% 2,193 2,293 (3.0)% Revenue Seat Factor (%) 78.0 77.7 0.2 pts 78.0 77.7 0.2 pts OANTASLINK - SCHEDULED SERVICES 78.0 77.7 0.2 pts 78.0 77.7 0.2 pts Passengers Carried (000) 461 442 4.3% 461 442 4.3% Revenue Passenger Kilometres (m) 306 289 5.7% 306 289 5.7% Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Passengers Carried (000) 1,041 981 6.1%	QANTAS DOMESTIC (EXCLUDING QANT	ASLINK) - SCHE	DULED SER	RVICES			
Available Seat Kilometres (m) 2,813 2,893 (3.0)% 2,813 2,893 (3.0)% Revenue Seat Factor (%) 78.0 77.7 0.2 pts 78.0 77.7 0.2 pts QANTASLINK - SCHEDULED SERVICES 78.0 77.7 0.2 pts 78.0 77.7 0.2 pts Passengers Carried (000) 461 442 4.3% 461 442 4.3% Revenue Passenger Kilometres (m) 306 289 5.7% 306 289 5.7% Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Revenue Passenger Kainetres (m) 1,041 981 6.1% 1,041 981 6.1% Revenue Seat Factor (%) 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES 76.0 5.031 0.9% 5.031 0.9% 5.031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts					1,454	1,481	(1.8)%
Revenue Seat Factor (%) 78.0 77.7 0.2 pts 78.0 77.7 0.2 pts QANTASLINK - SCHEDULED SERVICES	Revenue Passenger Kilometres (m)	2,193	2,254	(2.7)%	2,193	2,254	(2.7)%
QANTASLINK - SCHEDULED SERVICES Passengers Carried ('000) 461 442 4.3% 461 442 4.3% Revenue Passenger Kilometres (m) 306 289 5.7% 306 289 5.7% Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Revenue Seat Factor (%) 64.4 68.0 (3.7) pts 64.4 68.0 (3.7) pts JETSTAR DOMESTIC - SCHEDULED SERVICES 1.223 5.4% 1.041 981 6.1% 1.041 981 5.2% Available Seat Kilometres (m) 1.552 1.512 2.6% 1.552 1.512 2.6% Available Seat Kilometres (m) 1.552 1.512 2.6% 1.552 1.512 2.6% QANTAS INTERNATIONAL - SCHEDULED SERVICES 82.7 5.03 6.09 5.2% Revenue Passenger Kilometres (m) 5.078 5.031 0.9% 5.073 5.031 0.9% Revenue Passenger Kilometres (m) 1.186 1.285	Available Seat Kilometres (m)	2,813	2,899	(3.0)%	2,813	2, 899	(3.0)%
Passengers Carried (000) 461 442 4.3% 461 442 4.3% Revenue Passenger Kilometres (m) 306 269 5.7% 306 269 5.7% Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Revenue Seat Factor (%) 64.4 68.0 (3.7) pts 64.4 68.0 (3.7) pts JETSTAR DOMESTIC - SCHEDULED SERVICES 5.4% 1,041 981 6.1% 1,021 2.5% Available Seat Kilometres (m) 1,020 1,220 1,552 1,552 1,552 2.6% 1,552 1,552 2.6% Available Seat Kilometres (m) 1,250 1,552 1,552 2.6% 1,552 1,552 2.5% QANTAS INTERNATIONAL - SCHEDULED SERVICES 4.161 1.1% 4.208 4.161 1.1% Available Seat Kilometres (m) 4.208 4.161 1.1% 4.208 4.161 1.1% Available Seat Kilometres (m) 5.078 5.031 0.9%	Revenue Seat Factor (%)	78.0	77.7	0.2 pts	78.0	77.7	0.2 pts
Revenue Passenger Kilometres (m) 306 289 5.7% 306 289 5.7% Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Revenue Seat Factor (%) 64.4 68.0 (3.7) pts 64.4 68.0 (3.7) pts JETSTAR DOMESTIC - SCHEDULED SERVICES 1.041 981 6.1% 1.041 981 6.1% Passengers Carried (000) 1,041 981 6.1% 1.223 5.4% 1.200 1.223 5.4% Available Seat Kilometres (m) 1,552 1,512 2.6% 1.552 1,512 2.6% Revenue Seat Factor (%) 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES 4.161 1.1% 4.206 4.161 1.1% Available Seat Kilometres (m) 5.078 5.031 0.9% 5.078 5.031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 <td< td=""><td>QANTASLINK - SCHEDULED SERVICES</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	QANTASLINK - SCHEDULED SERVICES						
Available Seat Kilometres (m) 475 425 11.7% 475 425 11.7% Revenue Seat Factor (%) 64.4 68.0 (3.7) pts 64.4 68.0 (3.7) pts JETSTAR DOMESTIC - SCHEDULED SERVICES Passengers Carried (000) 1,041 981 6.1% 1,041 981 6.1% Revenue Passenger Kilometres (m) 1,250 1,552 1,552 1,552 1,512 2.6% Revenue Seat Factor (%) 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES Passengers Carried (000) 516 490 5.2% 82.1 89 5.2% Revenue Passenger Kilometres (m) 4,208 4,161 1.1% 4,208 4,161 1.1% Available Seat Kilometres (m) 5,078 5,031 0.9% 5,078 5,031 0.9% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% JETSTAR INTERNATIONAL - SCHEDULED SERVICES T3.5% 1.569 1.6	Passengers Carried ('000)	461	442	4.3%	461	442	4.3%
Revenue Seat Factor (%) 64.4 68.0 (3.7) pts 64.4 68.0 (3.7) pts JETSTAR DOMESTIC - SCHEDULED SERVICES JETSTAR DOMESTIC - SCHEDULED SERVICES V V 1,220 1,223 5.4% 1,041 981 6.1% Revenue Passenger Kilometres (m) 1,250 1,512 2.6% 1,552 1,512 2.6% Available Seat Kilometres (m) 1,552 1,512 2.6% 1,552 1,512 2.6% QANTAS INTERNATIONAL - SCHEDULED SERVICES V 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES V V 4.08 4.161 1.1% 4,208 4.161 1.1% 4,208 4.161 1.1% Available Seat Kilometres (m) 5.078 5.031 0.9% 5.078 5.031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES V V 4.0% 4.22 439		306	289	5.7%	306	289	5.7%
JETSTAR DOMESTIC - SCHEDULED SERVICES Passengers Carried (000) 1,041 981 6.1% 1,041 981 6.1% Revenue Passenger Kilometres (m) 1,290 1,223 5.4% 1,290 1,223 5.4% Available Seat Kilometres (m) 1,552 1,512 2.6% 1,552 1,512 2.6% QANTAS INTERNATIONAL - SCHEDULED SERVICES 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts Passengers Carried (000) 516 490 5.2% 516 490 5.2% Revenue Passenger Kilometres (m) 4,208 4,161 1.1% 4,208 4,161 Available Seat Kilometres (m) 5,078 5,031 0.9% 5,078 5,031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES Passengers Carried (000) 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,668 1,53% 1,563 1,55% 7.5 <td< td=""><td>Available Seat Kilometres (m)</td><td>475</td><td>425</td><td>11.7%</td><td>475</td><td>425</td><td>11.7%</td></td<>	Available Seat Kilometres (m)	475	425	11.7%	475	425	11.7%
Passengers Carried (000) 1,041 981 6.1% 1,041 981 6.1% Revenue Passenger Kilometres (m) 1,290 1,223 5.4% 1,290 1,223 5.4% Available Seat Kilometres (m) 1,552 1,512 2.6% 1,552 1,512 2.6% Revenue Seat Factor (%) 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES 4.061 1.1% 4.208 4.161 1.1% Available Seat Kilometres (m) 5,078 5,031 0.9% 5,078 5,031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES 7.7% 1,86 1,285 (7.7)% 1,86 1,285 (7.7)% 1,86 1,285 (7.7)% 1,86 1,285 (7.7)% 1,86 1,539 (4.0)% (4.0)% 1,285 (7.7)% 1,86 1,56% (5.3)% 1,658 (5.3)% </td <td>Revenue Seat Factor (%)</td> <td>64.4</td> <td>68.0</td> <td>(3.7) pts</td> <td>64.4</td> <td>68.0</td> <td>(3.7) pts</td>	Revenue Seat Factor (%)	64.4	68.0	(3.7) pts	64.4	68.0	(3.7) pts
Revenue Passenger Kilometres (m)1,2901,2235.4%1,2901,2235.4%Available Seat Kilometres (m)1,5521,5122.6%1,5521,5122.6%QANTAS INTERNATIONAL - SCHEDULED SERVICESPassengers Carried (000)5164905.2%5164905.2%Revenue Passenger Kilometres (m)4,2084,1611.1%4,2084,1611.1%Available Seat Kilometres (m)5,0785,0310.9%5,0785,0310.9%Revenue Passenger Kilometres (m)5,0785,0310.9%5,0785,0310.9%Revenue Seat Factor (%)82.982.70.2 pts82.982.70.2 ptsJETSTAR INTERNATIONAL - SCHEDULED SERVICESPassengers Carried (000)422439(4.0)%422439(4.0)%Revenue Passenger Kilometres (m)1,1661,658(5.3)%1,5691,658(5.3)%Available Seat Kilometres (m)1,6691,658(5.3)%1,5691,658(5.3)%Revenue Passenger Kilometres (m)1,6691,658(5.3)%1,5691,658(5.3)%JETSTAR ASIA - SCHEDULED SERVICESJETSTAR ASIA - SCHEDULED SERVICESPassengers Carried (000)3142946.5%3142946.5%Available Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Passenger Kilometres (m)622630(1.4)%622630(1.4)%Revenue Passenger Ki	JETSTAR DOMESTIC - SCHEDULED SERVIC	ES					
Available Seat Kilometres (m) 1,552 1,512 2.6% 1,552 1,512 2.6% Revenue Seat Factor (%) 83.1 80.9 2.2 pts 83.1 80.9 2.2 pts QANTAS INTERNATIONAL - SCHEDULED SERVICES 80.9 5.2% 83.1 40.9 5.2% Passengers Carried (000) 516 490 5.2% 516 490 5.2% Revenue Passenger Kilometres (m) 4.208 4,161 1.1% 4.208 4,161 1.1% Available Seat Kilometres (m) 5.078 5.031 0.9% 5.078 5.031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES 7.7% 1.86 1.285 (7.7)% Passengers Carried (000) 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,669 1,658 (5.3)% 1,569 1,658 (5.3)% 1,668 (5.3)% <tr< td=""><td>Passengers Carried ('000)</td><td>1,041</td><td>981</td><td>6.1%</td><td>1,041</td><td>981</td><td>6.1%</td></tr<>	Passengers Carried ('000)	1,041	981	6.1%	1,041	981	6.1%
Revenue Seat Factor (%)83.180.92.2 pts83.180.92.2 ptsQANTAS INTERNATIONAL - SCHEDULED SERVICESPassengers Carried (000)5164905.2%5164905.2%Revenue Passenger Kilometres (m)4.2084.1611.1%4.2084.1611.1%Available Seat Kilometres (m)5.0785.0310.9%5.0785.0310.9%Revenue Seat Factor (%)82.982.70.2 pts82.982.70.2 ptsJETSTAR INTERNATIONAL - SCHEDULED SERVICESPassengers Carried (000)422439(4.0)%422439(4.0)%Revenue Passenger Kilometres (m)1,1861,285(7.7)%1,1861,285(7.7)%Available Seat Kilometres (m)1,5691,658(5.3)%1,5691,658(5.3)%Revenue Seat Factor (%)75.677.5(1.9) pts75.677.5(1.9) ptsJETSTAR ASIA - SCHEDULED SERVICESPassengers Carried (000)3142946.5%3142946.5%Available Seat Kilometres (m)484512(5.5)%484512(5.5)%Available Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Passenger Kilometres (m)622630(1.4)%622630(1.4)%Revenue Seat Factor (%)77.881.2(3.4) pts77.881.2(3.4) ptsQANTAS GROUP OPERATIONSPassengers Carried (000)4,2	Revenue Passenger Kilometres (m)	1,290	1,223	5.4%	1,290	1,223	5.4%
QANTAS INTERNATIONAL - SCHEDULED SERVICES Passengers Carried (000) 516 490 5.2% 516 490 5.2% Revenue Passenger Kilometres (m) 4.208 4.161 1.1% 4.208 4.161 1.1% Available Seat Kilometres (m) 5.078 5.031 0.9% 5.078 5.031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES 7.7% 1.186 1.285 (7.7)% Passengers Carried (000) 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,569 1,658 (5.3)% 1,658 (5.3)% Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 4.84 512 (5.5)% 484 512 <td>Available Seat Kilometres (m)</td> <td>1,552</td> <td>1,512</td> <td>2.6%</td> <td>1,552</td> <td>1,512</td> <td>2.6%</td>	Available Seat Kilometres (m)	1,552	1,512	2.6%	1,552	1,512	2.6%
Passengers Carried (000)5164905.2%5164905.2%Revenue Passenger Kilometres (m)4.2084.1611.1%4.2084.1611.1%Available Seat Kilometres (m)5.0785.0310.9%5.0785.0310.9%Revenue Seat Factor (%)82.982.70.2 pts82.982.70.2 ptsJETSTAR INTERNATIONAL - SCHEDULED SERVICES422439(4.0)%422439(4.0)%Revenue Passenger Kilometres (m)1.1661.285(7.7)%1.1861.285(7.7)%Available Seat Kilometres (m)1.5691.658(5.3)%1.5691.658(5.3)%Revenue Seat Factor (%)75.677.5(1.9) pts75.677.5(1.9) ptsJETSTAR ASIA - SCHEDULED SERVICESPassengers Carried (000)3142946.5%3142946.5%Revenue Passenger Kilometres (m)3142946.5%3142946.5%Available Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Passenger Kilometres (m)622630(1.4)%622630(1.4)%Revenue Seat Factor (%)77.881.2(3.4) pts77.881.2(3.4) ptsDassenger Kilometres (m)4.2074.1281.9%4.2074.1281.9%Revenue Seat Factor (%)77.881.2(0.6)%9.6669.724(0.6)%Available Seat Kilometres (m)9.666	Revenue Seat Factor (%)	83.1	80.9	2.2 pts	83.1	80.9	2.2 pts
Revenue Passenger Kilometres (m)4.2084.1611.1%4.2084.1611.1%Available Seat Kilometres (m)5.0785.0785.0310.9%5.0785.0310.9%Revenue Seat Factor (%)82.982.70.2 pts82.982.70.2 ptsJETSTAR INTERNATIONAL - SCHEDULED SERVICESPassengers Carried (000)422439(4.0)%422439(4.0)%Revenue Passenger Kilometres (m)1,1861,285(7.7)%1,1861,285(7.7)%Available Seat Kilometres (m)1,5691,658(5.3)%1,5691,658(5.3)%Revenue Seat Factor (%)75.677.5(1.9) pts75.677.5(1.9) ptsJETSTAR ASIA - SCHEDULED SERVICESPassengers Carried (000)3142946.5%3142946.5%Revenue Passenger Kilometres (m)484512(5.5)%484512(5.5)%Available Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Seat Factor (%)77.881.2(3.4) pts77.881.2(3.4) ptsAvailable Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Seat Factor (%)77.881.2(3.4) pts77.881.2(3.4) ptsQANTAS GROUP OPERATIONSPassenger Kilometres (m)9,6669,724(0.6)%9,6669,724(0.6)%Available Seat Kilometres (m)12,10812,10812,10812,105	QANTAS INTERNATIONAL - SCHEDULED SE	RVICES					
Available Seat Kilometres (m) 5,078 5,031 0.9% 5,078 5,031 0.9% Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES 5078 5,078 5,031 0.9% Revenue Passenger Scarried ('000) 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,569 1,658 (5.3)% 1,569 1,658 (5.3)% Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 4.294 6.5% Jetster (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512	Passengers Carried ('000)	516	490	5.2%	516	490	5.2%
Revenue Seat Factor (%) 82.9 82.7 0.2 pts 82.9 82.7 0.2 pts JETSTAR INTERNATIONAL - SCHEDULED SERVICES Jets TAR INTERNATIONAL - SCHEDULED SERVICES 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,569 1,658 (5.3)% 1,569 1,658 (5.3)% JETSTAR ASIA - SCHEDULED SERVICES 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 9 4.84 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8	Revenue Passenger Kilometres (m)	4,208	4,161	1.1%	4,208	4,161	1.1%
JETSTAR INTERNATIONAL - SCHEDULED SERVICES Passengers Carried ('000) 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,569 1,658 (5.3)% 1,569 1,658 (5.3)% Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES <t< td=""><td>Available Seat Kilometres (m)</td><td>5,078</td><td>5,031</td><td>0.9%</td><td>5,078</td><td>5,031</td><td>0.9%</td></t<>	Available Seat Kilometres (m)	5,078	5,031	0.9%	5,078	5,031	0.9%
Passengers Carried ('000) 422 439 (4.0)% 422 439 (4.0)% Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,669 1,658 (5.3)% 1,569 1,658 (5.3)% Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 314 294 6.5% 314 294 6.5% Passengers Carried ('000) 314 294 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS Passengers Carried ('000) 4,207 4,128 1.9% 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Revenue Passenger Kilometres (m) <td>Revenue Seat Factor (%)</td> <td>82.9</td> <td>82.7</td> <td>0.2 pts</td> <td>82.9</td> <td>82.7</td> <td>0.2 pts</td>	Revenue Seat Factor (%)	82.9	82.7	0.2 pts	82.9	82.7	0.2 pts
Revenue Passenger Kilometres (m) 1,186 1,285 (7.7)% 1,186 1,285 (7.7)% Available Seat Kilometres (m) 1,569 1,658 (5.3)% 1,569 1,658 (5.3)% Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts Passengers Carried ('000) 314 294 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 1	JETSTAR INTERNATIONAL - SCHEDULED SE	ERVICES					
Available Seat Kilometres (m)1,5691,658(5.3)%1,5691,658(5.3)%Revenue Seat Factor (%)75.677.5(1.9) pts75.677.5(1.9) ptsJETSTAR ASIA - SCHEDULED SERVICESPassengers Carried (000)3142946.5%3142946.5%Revenue Passenger Kilometres (m)484512(5.5)%484512(5.5)%Available Seat Kilometres (m)622630(1.4)%622630(1.4)%Revenue Seat Factor (%)77.881.2(3.4) pts77.881.2(3.4) ptsQANTAS GROUP OPERATIONS4,2074,1281.9%4,2074,1281.9%Revenue Passenger Kilometres (m)9,6669,724(0.6)%9,6669,724(0.6)%Available Seat Kilometres (m)12,10812,156(0.4)%12,10812,156(0.4)%	Passengers Carried ('000)	422	439	(4.0)%	422	439	(4.0)%
Revenue Seat Factor (%) 75.6 77.5 (1.9) pts 75.6 77.5 (1.9) pts JETSTAR ASIA - SCHEDULED SERVICES Passengers Carried (000) 314 294 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS Passengers Carried (000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Revenue Passenger Kilometres (m)	1,186	1,285	(7.7)%	1,186	1,285	(7.7)%
JETSTAR ASIA - SCHEDULED SERVICES Passengers Carried ('000) 314 294 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS Passengers Carried ('000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Available Seat Kilometres (m)	1,569	1,658	(5.3)%	1,569	1,658	(5.3)%
Passengers Carried ('000) 314 294 6.5% 314 294 6.5% Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS 4,207 4,128 1.9% 4,207 4,128 1.9% Passengers Carried ('000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Revenue Seat Factor (%)	75.6	77.5	(1.9) pts	75.6	77.5	(1.9) pts
Revenue Passenger Kilometres (m) 484 512 (5.5)% 484 512 (5.5)% Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS 1.9% 1.9% 1.9% Passengers Carried ('000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	JETSTAR ASIA - SCHEDULED SERVICES						
Available Seat Kilometres (m) 622 630 (1.4)% 622 630 (1.4)% Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS Passengers Carried (000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Passengers Carried ('000)	314	294	6.5%	314	294	6.5%
Revenue Seat Factor (%) 77.8 81.2 (3.4) pts 77.8 81.2 (3.4) pts QANTAS GROUP OPERATIONS	Revenue Passenger Kilometres (m)	484	512	(5.5)%	484	512	(5.5)%
QANTAS GROUP OPERATIONS Passengers Carried ('000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Available Seat Kilometres (m)	622	630	(1.4)%	622	630	(1.4)%
Passengers Carried ('000) 4,207 4,128 1.9% 4,207 4,128 1.9% Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Revenue Seat Factor (%)	77.8	81.2	(3.4) pts	77.8	81.2	(3.4) pts
Revenue Passenger Kilometres (m) 9,666 9,724 (0.6)% 9,666 9,724 (0.6)% Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	QANTAS GROUP OPERATIONS						
Available Seat Kilometres (m) 12,108 12,156 (0.4)% 12,108 12,156 (0.4)%	Passengers Carried ('000)	4,207	4,128	1.9%	4,207	4,128	1.9%
	Revenue Passenger Kilometres (m)	9,666	9,724	(0.6)%	9,666	9,724	(0.6)%
Revenue Seat Factor (%) 79.8 80.0 (0.2) pts 79.8 80.0 (0.2) pts	Available Seat Kilometres (m)	12,108	12,156	(0.4)%	12,108	12,156	(0.4)%
	Revenue Seat Factor (%)	79.8	80.0	(0.2) pts	79.8	80.0	(0.2) pts

Notes Any adjustments to preliminary statistics will be included in the year to date results next month. Where figures have been rounded, discrepancies may occur between the sum of the components of items, the total and percentage changes which are derived from figures prior to rounding.

The number of passengers carried is calculated on the basis of origin/destination (ie. one origin/destination journey represents one passenger regardless of the number of stage lengths undertaken).

Key

(m):	Millions
RPKs:	The number of paying passengers carried multiplied by the number of kilometres flown
ASKs:	The number of seats available for sale multiplied by the number of kilometres flown



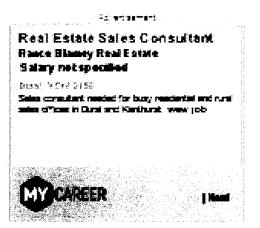
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Qantes has confirmed that it will inject another \$50 million into Jeistar Japan as it faces the Impact of a weak year making fuel more expensive and delays to establishing a second base in the country:

Following speculation about the need for further funding, Cankas said today that both it and Japan Airlines – the two largest shareholders – would make a combined injection of 11 billion yen (\$120 million).

it will result in Gantas and Japan Aldines both boosting their states in Jeistar Japan from 41.7 per cent to 45.7 per cent.

But the budget airline's two smaller shareholders – Mitsubishi and Century Tokyo Leasing – will have their stakes drop from 8.3 per cent to 4.3 per cent each because they are not participating in the share placement.



Cantes said the equity injection would "support Jetstar Japan's future feet and infrastructure growth, enabling the canter to capitalise on the significant potential of the low cost carter market in the world's third ingest economy".

However, the budget airline is facing the chailenge of a weaker yen making jet fuel – one of its biggest costs – more expensive and hold ups to establishing a second base of Karsai international Airport near Osaka.

Gantes has previously committed just over ¥5 billion to Jetstar Japan.

Since it began flying in July last year, Jetstar Japan has become the largest budget sirine in Japan with a fleet of 18 A320 aircraft fying to nine domestic destinations.

The skine intends to eventually boost its feet to 24 planes.

The cost of entering the Japanese market has weighed on the financial performance of Jetstar, which booked \$50 million in start-up losses from Jetstar Japan and Jetstar Hong Kong in the year to June.

Macquarte Equities has estimated that Jeistar Japan is losing about \$50 million a year as it competes against Peach and AlcAsia Japan, which is about to be rebranded Vanilia Air.

Malaysian budget altithe AtrAsia decided several months ago to pull out of the altithe joint venture in Japan.



1 Markets Live: Investors shun risk 257

Carapaten permited by

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- 3 Markets Live: Dollar soars on jobs ≃ 55



the

government's call

to repeal the

carbon tax

- \downarrow Rex, the anti-Qantas
- 5 This is now serious: Jac, stop frightening the kiddies.

Most Searched Shares

- 1. 2HP BHP SELLITON LINES
- 2. TLS TRESTRA CORPORATION LIMITED.



The questions were and still are:

- 1. How much did each segment of the Group pay and what amount was allocated to each segment, for advertising in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 2. On the Qantas finger Brisbane at Gate 25, Qantas Crews have been unable to dock when all other gates were taken. Gate 25 in some cases was not being used for several hours but the aircraft and passengers have waited, burning Jet fuel in the process until another bay was free. Why was this gate in the Qantas Brisbane finger not available for Qantas use? Are there any other Gates in Qantas fingers that Qantas weren't able to regularly use?
- 3. In regard to aircraft owned or leased by the Qantas segment of the Group, what were the lease costs charged or allocated to each other segment when those aircraft were leased or sub-leased to that other segment in FY 2011?
- 4. How much did each segment of the Group pay and what amount was allocated to each segment for upkeep of the Qantas intranet and all its parts such as the directory in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 5. How much did each segment of the Group pay and what amount was allocated to each segment, for Directors, Executive Directors and Group Executives remuneration in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 6. We understand that Jetstar equipment was held in Qantas storage areas (formerly QCD). How much did Jetstar pay and what amount was allocated to Jetstar for the cost of storage in FY2011?
- 7. How much did each segment of the Group pay and what amount was allocated to each segment for 'Group Security' in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 8. When a Qantaslink or Jetstar passenger uses the Qantas Club or Chairman's lounge facilities, what processes ensure that the cost is re-couped from those parts of the business?
- 9. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of Oldmeadow Consulting and associated entities for FY 2011? What amount was paid by or allocated to the Qantas International business?
- 10. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of staff car parking for FY 2011? What amount was paid by or allocated to the Qantas International business?
- 11. How much did each segment of the Group pay and what amount was allocated to each segment for the administrative costs of fuel hedging for FY 2011? What amount was paid by or allocated to the Qantas International business?

- 12. How has Qantas charged other parts of the Group for ground services equipment use?
- 13. What part of the business paid the expense for the two managers seconded to Jetstar Pacific who were kept under house arrest? Who paid for the other managers who went up to rescue them?
- 14. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of consultant's fees, including Bain and Co., reviewing the overall business in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 15. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of sending senior executives to appear before Senate inquiries, including their legal representation and associated costs for FY 2011? What amount was paid by or allocated to the Qantas International business?
- 16. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of the Crisis Control Centre on 5th floor QCC2 in FY2011? What amount was paid by or allocated to the Qantas International business?
- 17. Please confirm whether all Group aviation fuel bills get charged to the Qantas segment. How much did each segment of the Group pay and what amount was allocated to each segment, for the cost of fuel for FY 2011? What amount was paid by or allocated to the Qantas International business? What processes were used to charge each part of the business for its fuel use?
- 18. How much did Jetstar pay or what cost was allocated to Jetstar, for the use of Qantas Long Haul Route manual supplement information?
- 19. Who paid the bill for ACARS use and what cost was allocated to each segment of the Group? What amount was paid by or allocated to the Qantas International business?
- 20. Has Jetstar ever used Qantaslink check in counters at T2 Sydney? If so, how much did they reimburse Qantaslink for that use?
- 21. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of insuring the Group aircraft fleet for FY 2011? What amount was paid by or allocated to the Qantas International business?
- 22. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of production and distribution of the Annual Report and the cost of the Annual General Meeting for FY 2010? What amount was paid by or allocated to the Qantas International business?
- 23. Which part of the business pays the wages of the ground staff in Bali?
- 24. Who paid for the self-check in units, their installation and upkeep?

- 25. In 2009 Qantas admitted that it has *"seconded employees and various support services"* to Jetstar Asia. How many employees were seconded in FYs 2008, 2009 and 2010. Who paid their wages?
- 26. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of refuelling the Group's ground equipment in FY2011? What amount was paid by or allocated to the Qantas International business?
- 27. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of maintaining Qantas Group airbridges in FY2011? What amount was paid by or allocated to the Qantas International business?
- 28. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of jointly used conveyor belts and associated costs in check-in areas in FY2011? What amount was paid by or allocated to the Qantas International business?
- 29. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of the General Manager Group Government and Industrial Affairs salary in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 30. From the December 31st 2010 half year report, what made up the \$520 million of intersegment revenue received by Qantas?
- 31. From the December 31st 2010 half year report, what made up the \$98 million of intersegment revenue received by Jetstar?

Maintenance Related

- 32. At outstations where any Qantas Group A330 aircraft flew, who have the spare A330 parts used been billed to?
- 33. Who is paying for the \$21 million refurbishment of Hangar 245 that will predominantly house 787's?
- 34. Why were LAMEs told not to fill out form 2350's (customer billing sheets) when additional work or equipment is required on non- Qantas mainline aircraft? How much was charged to Jetstar through this process in FY2011?
- 35. The following appears in the Jetstar manuals -

JETSTAR AIRWAYS HAS BEEN SPONSORED BY QANTAS AS AN EQUALISED MEMBER OF THE IATP SPARES POOLING AGREEMENT. JETSTAR AIRWAYS DOES NOT PROVIDE ANY SPARES FOR THE POOL BUT RELIES UPON QANTAS FOR THEIR PROVISION. THE POOLING SYSTEM WILL BE OPERATED BY QANTAS ON BEHALF OF JETSTAR AIRWAYS IN ACCORDANCE WITH THE PROCEDURES SET DOWN IN THE QANTAS E&M PROCEDURES MANUAL (CHAPTER 4-60-005) AND RELATED DOCUMENTS.

What do Jetstar pay for this service?

- 36. In Perth and Darwin from time to time check in staff are required both Qantas and Jetstar uniforms. Who pays their wages?
- 37. Has Jetstar used the Qantas Maintenance Watch for their A330? How much were they charged for this use in FY2011?
- 38. Is Jetstar charged for the compilation and distribution of work packages by Qantas planners for the Jetstar A330 transits and overnight work in domestic and international ports?
- 39. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of Engineering Manager Rod Pullbrook's salary in FY2011? What amount was paid by or allocated to the Qantas International business?
- 40. Has any Qantas tooling been sold or transferred to Jetstar. How much paid to Qantas or what cost was allocated to Jetstar for the tooling?

Crewing

- 41. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of Sim, Emergency Procedures and medical training for Tech and Cabin Crew in FY2011? What amount was paid by or allocated to the Qantas International business?
- 42. Has any part of the business been required to send Tech crew overseas for training because Australian facilities were being fully utilised? If so, which part, what was the cost and how much did each segment of the Group pay and what amount was allocated to each segment in FY 2011? What amount was paid by or allocated to the Qantas International business?
- 43. When Tech and Cabin Crew are required to pax to another port for duty, what processes are used to allocate costs between the different segments?
- 44. When Qantas Long Haul Crews fly Domestic sectors, does Qantas Domestic pay their wages?
- 45. What was the financial cost to mainline of transferring aircraft to Jetstar and Qantas carrying a pilot surplus for the last 3 years?
- 46. How much did each segment of the Group pay and what amount was allocated to each segment for the cost of Jetstar NZ cadets staying in hotels in Australia in FY 2011? What amount was paid by or allocated to the Qantas International business?

Freight

- 47. How much did each segment of the Group pay and what amount was allocated to each segment, for the cost of QF AKE baggage containers, including upkeep, in FY2011? What amount was paid by or allocated to the Qantas International business?
- 48. Have there been times where the Group has been required to hire containers from other operators due to shortages? If so, what part of the business bears the expense or hire charge?

- 49. How much did each segment of the Group pay and what amount was allocated to each segment for the legal fees, fines and associated costs of the freight cartel issue from FYs 2006-11? What amount was paid by or allocated to the Qantas International business?
- 50. Do Qantas pay a fixed price for Cargo space on any Jetstar service? If so, how much revenue did they earn from the cargo and how much did they pay for the space?
- 51. If Qantas pay a fixed price for Cargo space on Jetstar services, when that space is not used, do they get revenue back from Jetstar?
- 52. How much did each segment of the Group pay and what amount was allocated to each segment, for the cost of Freight Sales and Reservations Department and staff in FY2011? What amount was paid by or allocated to the Qantas International business?
- 53. Did Qantas pay a fixed price to Jetstar to carry freight on flights to Japan and other areas that saw those flights cancelled due to natural disasters? If so was the money paid back?

Flight sharing

- 54. Did Qantas buy a fixed number of seats on Jetstar/Qantas codeshare flights operated by Jetstar in FY2011? If so how many did they buy and what price was charged? What load factor did Qantas have on these purchased seats? If Qantas didn't sell the seats, could Jetstar then sell them? If Jetstar sold the seats how was the revenue dealt with?
- 55. For cancelled Jetstar flights, was this revenue refunded to Qantas?
- 56. Did Jetstar buy a fixed number of seats on Jetstar/Qantas codeshare flights operated by Qantas in FY2011? If so how many did they buy and what price was charged? What load factor did Jetstar have on these purchased seats? If Jetstar didn't sell the seats, could Qantas then sell them? If Qantas sold the seats how was the revenue dealt with?
- 57. When Jetstar took over the Cairns-Darwin-Singapore route replacing the QF 61/62, was an agreement struck which saw Qantas pay a fixed sum in revenue for use of that service annually?
- 58. When a delay on a QF aircraft is incurred whilst waiting for passengers from other parts of the business, who pays this cost?
- 59. What amount was paid to Qantas each time they were chartered to fly services to recover stranded Jetstar passengers?
- 60. Does Qantas have an agreement between the various parts of the Group dealing with Disruption Handling including, but not limited to, the cost to be paid or allocated for carrying disrupted passengers?

61. When a passenger purchases a Qantas ticket but flies on Jetstar, how is the revenue from ancillary charges paid or allocated between Qantas?

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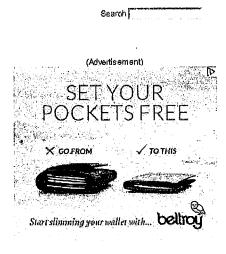


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VH-EBE Jetstar Airways Airbus A330-202 - cn 842

Airframe Details				
Construction Number (MSN)	842			
Aircraft Type	Airbus A330-202			
First Flight	29-05-2007			
Age	6.8 Years			
Test registration	ration F-WWYV			
Airframe Status	frame Status Active			
Send in corrections				



Operator History

Reg	Aircraft Type	Airline	Engines	Config	Dellvered Remark
VH-EBE	Airbus A330-202	Jetstar Airways	2x GE CF6-80E1A3	C38Y265	21-06-2007

Aviation Photos Airbus A330-202 - 842

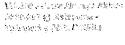
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