



# Zebra Projects Inc

SCADA Integration  
Custom Software Development

## INSPECTION MANAGER

There exists a fine line in every aviation company between the **assurance of quality work** and the **financial stress** associated with the labor intense nature of maintenance.

Limiting the "Human Factors" in aviation maintenance is a constant struggle for the management team, Transport Canada and especially for the AME's maintaining the safety of their fleet— Particularly when dealing with aging aircraft whose evolving and revised inspection packages require as much research as actual inspection. As aircraft are operating farther from base, in harsher environments, and under tighter deadlines the cost of downtime increases as does the necessity for greater inspection diligence.

**Inspection Manager** is a product to address these issues and is the result of the cooperation between the aircraft industry expertise of **BushTech Aviation** and the software development experience of **Zebra Projects Inc.**

## THE PROBLEM

Maintenance programmes such as the DeHaviland Twin Otter Emma program is designed to allow a small team to comply with the requirements of A, B, and C checks progressively over 48 "inspection days".

However, fleet operators with multiple aircraft seldom have 100% modification conformity — which means the engineers and technicians maintaining these aircraft spend valuable time cross referencing service bulletins to modifications to serial numbers/registrations only to determine non applicability. A non affected panel gets opened in vain and worse yet is the danger of assumed non applicability where faults remain undetected.

It is a progressive management team that takes every measure to provide its employees with an environment within which they will be successful. Remove any pitfalls and traps and ensure that their only course of action is the one that elicits the correct response. Know that your frustration is their frustration and work together to eliminate it.

## THE SOLUTION

**Inspection Manager** was developed to address that frustration. It quite simply performs all of the necessary research and cross referencing of, for example, Emma Card's, Service Bulletins, and Airworthiness Directives against the modification and equipment list of your serial numbers and registrations. It is a "read only" database or that will print the requested Inspection, a task applicability card as well as the necessary task accomplishment instructions from applicable Service Bulletins and Airworthiness Directives.

Putting together an inspection package will consist of selecting the aircraft type and registration, selecting the necessary inspection number, then selecting from a prompt **read** or **print**. No more photocopying from a binder.

The Emma Binder is unaffected. This program provides an **automated reproduction of the existing inspection package**.

**The Task Applicability Card** is a registration specific printout of the list of Service Bulletins and Airworthiness Directives that are called up on the inspection cards. The applicability is listed in accordance with the modification status of your aircraft.

As all documents are read only files, the inspection cards will be **tamper proof** in the field. All changes are made by introducing copies of the original source documents.

For reference purposes, all applicable Service Bulletins and/or Airworthiness Directive accomplishment instructions will be printed with the Task applicability card. This program is not intended to replace any of your technical libraries. It is however a storage solution that puts information exactly where you need it to be, into the hands of your technicians as they need it.

It means eliminating the distractions of less experienced coworkers questioning "does this aircraft have....?" And ensures your people confidently do their job.

Inspection Manager is developed using Microsoft tools and optimized for databases from Microsoft - Microsoft SQL Server or Microsoft Access on Microsoft Platforms— Microsoft Windows 2000 or Microsoft Server 2003

INQUIRIES: Zebra Projects Inc

Jacques van Dijk  
Phone: +(403) 208-1661  
Fax: +(403) 288-1669

Sales@ZebraProjects.com

INQUIRIES: BushTech Aviation

Shane Hanlon  
Phone: +(403) 708-1504

Shaneinthebush@hotmail.com

*Zebra Projects Inc.*  
*Suite #206*  
*4616 Valiant Drive NW*  
*Calgary, AB.*  
*T3A 0X9*  
*(403) 208 1661*