

Pacific Air Forces

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PACAF/A4

Corrosion Control Program

World Class, Synergized Corrosion Control Program



MSgt Holsinger
PACAF/A4MYE

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Overview

- **Aircraft Wash Intervals (PACAF environment)**
- **PACAF/A4 and Deloitte Business Case Analysis (BCA)**
- **2010 PACAF Corrosion Survey**
- **PACAF LCAP Logistics Interest Item (LII)**
- **Corrosion Control Work Group (CCWG)**
- **Controlled Humidity Protection (CHP)**
- **Questions**



PACAF Environment

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■ T.O. 1-1-691, Section III

Wash Interval By Severity			
Air Base Name and Location	Severe (30 days)	Moderate (90 days)	Mild (120 days)
Anderson AFB, GU	X		
Eielson AFB, AK			X
Elmendorf AFB, AK			X
Hickam AFB, HI	X		
Kadena AB, JA	X		
Kunsan AB, JA	X		
Misawa AB, JA		X	
Osan AB, JA		X	
Yokota AB, JA			X

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BCA Purpose

PACAF/A4 and Deloitte Business Case Analysis (BCA)

- Define the future state of PACAF's Corrosion Control program and operations
- Document status of existing corrosion control facilities within PACAF
 - Determine the need to consolidate certain operations and facilities
 - Optimize corrosion control activities across the Command
- Roadmap that will detail the necessary implementation activities required to execute the restructuring effort, will be delivered.



Business Case Analysis (BCA)

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Team:

- **Steve Gignilliat** **Senior Program Manager (Deloitte Consulting Inc.)**
- **Dennis Robinson** **Equipment Specialist (Aerospace Facilities Group Inc.)**
- **Sean Pasinsky** **Consultant/Data Analyst (Deloitte Consulting Inc.)**
- **Maj William Belser** **AFMC USAFSAM DET 3/CD (BEE)**
- **Mr. Mark Foley** **AFCPCO**
- **MSgt Steve Holsinger** **HQ PACAF/A4M**
- **Wing Corrosion Managers**



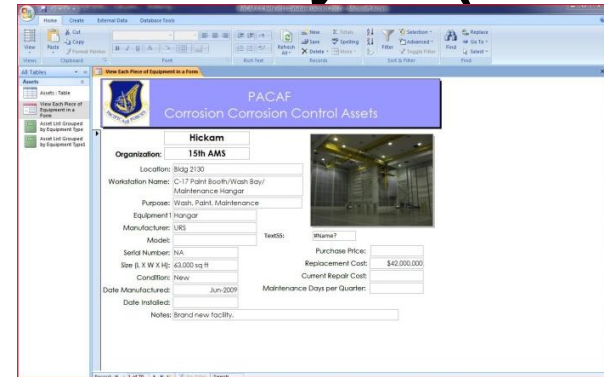


Business Case Analysis (BCA)

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PACAF/A4 and Deloitte Business Case Analysis (BCA)

- Equipment database
- 15 Way-forward suggestions
- Quick Wins, Must Haves, Low Hanging Fruit
 - Full time WCM
 - Establish Corrosion Maintenance Program
 - Identify, develop and publish standard procedures, reporting requirements and performance measures
 - Identify and develop key performance metrics to be tracked and develop
 - Adapt a management/manufacturing model where uptime and downtime is measured and reported
 - Improve communications and relationships within all the units of the Maintenance Group
 - Develop local training guides
 - Develop an Operations Visibility Tool that would be used for scheduling visibility and allow reallocation of resources based on equipment downtime
 - Leverage RNI modeling
 - Conduct a comprehensive review of required throughput to check capacity at each base
 - Civilian continuity positions
 - Establish basic troubleshooting steps to take prior to calling equipment “expert”





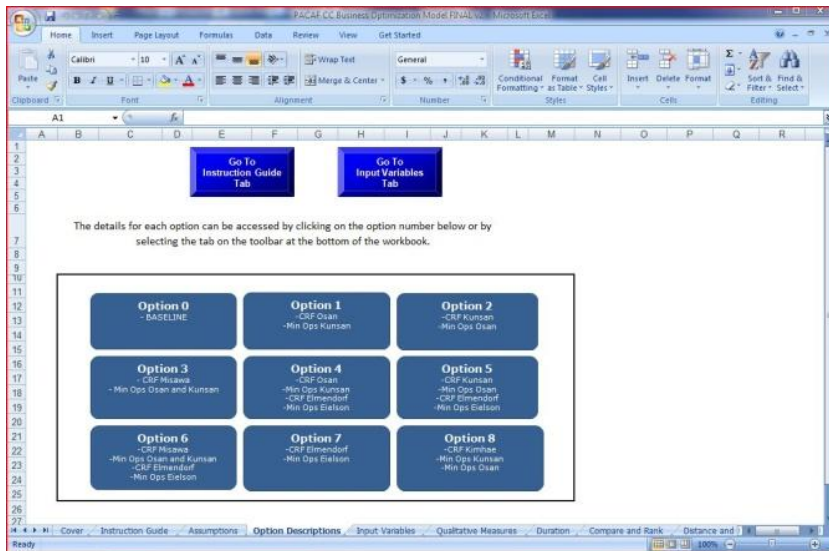
Business Case Analysis (BCA)

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PACAF/A4 and Deloitte Business Case Analysis (BCA)

Business Optimization Tool

- Discovered lack of needed data
- A4MYE developed command corrosion data-tracking tool



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Aircraft Paint Booth																			
2		Prep/paint	Cure time	Skill-level	Aircraft	Full	Partial/TU	Other	Approximate Sq Ft (touch and partial)											
3	Date:	Start:	Stop:	Start:	Stop:	3	5	7	Cntr	MDS	Description	Description	Description	1-10	11-50	51-150	151-250	251-500		
4	1-Jun	800	1200			X	X						AGE T/U		X					
5	1-Jun	1600	1900				X						Age T/U		X					
6	2-Jun	900	1200			X	X						MHE	X						
7	2-Jun	1600	1900				X						MHE		X					
8	3-Jun	800	1300			X							MHE		X					
9	3-Jun	1500	1600			X							NLG wheel	T/A	X					
10	6-Jun	700	800			X							NLG wheel	T/A	X					
11	6-Jun	1000	1400			X							MHE			X				
12	6-Jun	1600	2000				X						MHE		X					
13	7-Jun	1000	1800			X							NLG wheel	T/A		X				
14	13-Jun	1300	2100				X						Tow bar eye	AGE T/U	X					
15	14-Jun	900	1100			X							Aft pivot bolts (x12)	AMU	X					
16	24-Jun	1000	1400			X							NLG wheel	T/A	X					
17	24-Jun	1300	2200			X							WAU-129 Nose fairing (x8)	AME	X					
18	24-Jun	1400	2300			X							Anti-pers run screen	AMU	X					
19	24-Jun	800	1100			X							NLG wheel	T/A	X					
20	24-Jun	1000	1200			X							travel pod lugs (x9)	AMU	X					
21	27-Jun	730	2300				X						props trailers (x3)	Engine Sup		X				
22	28-Jun	1100	1400			X							overhead support	Engine Sup	X					
23	28-Jun	1100	1400			X							fan frame bracket	Engine Sup	X					
24	29-Jun	900	1100			X							swivel hook	Engine Sup	X					
25	29-Jun	1000	1600				X						NLG wheel	T/A	X					
26	29-Jun	1000	1600				X						NLG wheel	T/A	X					
27																				



Business Case Analysis (BCA)

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PACAF/A4 and Deloitte Business Case Analysis (BCA)

■ Possible Centralized Repair Facilities (CRF) options

The screenshot shows a Microsoft Excel spreadsheet titled "PACAF CC Business Optimization Model F2014". The interface includes a ribbon with tabs for Home, Insert, Page Layout, Formulas, Data, Review, View, and Get Started. The main content area contains two blue buttons at the top: "Go To Instruction Guide Tab" and "Go To Input Variables Tab". Below these buttons, a text box states: "The details for each option can be accessed by clicking on the option number below or by selecting the tab on the toolbar at the bottom of the workbook." A grid of eight blue buttons, labeled Option 0 through Option 8, is displayed. Each button lists the option name and the locations of the Centralized Repair Facilities (CRF) and the minimum operations (Min Ops) for each location. The options are as follows:

Option	CRF Locations	Min Ops
Option 0 - BASELINE		
Option 1	-CRF Osan	-Min Ops Kunsan
Option 2	-CRF Kunsan	-Min Ops Osan
Option 3	-CRF Misawa	-Min Ops Osan and Kunsan
Option 4	-CRF Osan	-Min Ops Kunsan -CRF Elmendorf -Min Ops Eielson
Option 5	-CRF Kunsan	-Min Ops Osan -CRF Elmendorf -Min Ops Eielson
Option 6	-CRF Misawa	-Min Ops Osan and Kunsan -CRF Elmendorf -Min Ops Eielson
Option 7	-CRF Elmendorf	-Min Ops Eielson
Option 8	-CRF Kimhae	-Min Ops Kunsan -Min Ops Osan

The spreadsheet also shows a toolbar at the bottom with tabs for Cover, Instruction Guide, Assumptions, Option Descriptions, Input Variables, Qualitative Measures, Duration, Compare and Rank, and Distance and. The status bar at the bottom indicates "Ready" and "100%".



AFCPCO 2010 Corrosion Survey

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PACAF 2010 Corrosion Survey

- IAW AFI 21-105 required every 5 years

- Areas covered

Paint Facilities/Corrosion	Structural Maintenance	Wash Rack	Training
Wheel & Tire	Quality Assurance	AGE Facilities	Avionics
Flight Line Sampling	Support Sections	Hydraulics	Haz-Mart
Plans & Scheduling	Ammunition		

- Action Items

- Overall command view



Logistics Interest Item (LII)

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PACAF LCAP Logistics Interest Item (LII)

- Focus areas
- Implementation
- Current status/results

(LCAP) LII ____, CORROSION CONTROL PROGRAM INSPECTION GUIDE				
ITEM #	ITEM	REFERENCE(S)	COMMENTS	YES / NO
1.	HAVE PROCEDURES BEEN ESTABLISHED THAT ENSURE SECTIONS (AND ELEMENTS) MAINTAIN A RECORD OF INSPECTION, LUBRICATION AND MAINTENANCE OF INDUSTRIAL EQUIPMENT IN ACCORDANCE WITH APPROPRIATE GENERAL MAINTENANCE MANUALS AND TO'S?	AFI 21-101, PARA 3.9.13		
2.	DOES O&A COMPLETE FREQUENT SPOT-CHECKS OF COMPLETED WASHES AND ADEQUATELY EVALUATE AT LEAST 10% OF WASH RACK OPERATIONS THROUGH OVER THE SHOULDER INSPECTION AND MAINTENANCE FOLLOW-UPS?	PACAFI 21-105, PARA 3.12.1 PARA 3.12.3		
3.	ARE WASH AND CORROSION WASH AND INSPECTION SCHEDULES BEING MONITORED IN WEEKLY AND MONTHLY MAINTENANCE PLANS AND ALL OVER-DUE WASHES PROPERLY ROUTED AND MAINTAINED?	PACAFI 21-105 PARA 3.7.1 PARA 3.7.5 TO 1-1-691 PARA 3.2.2.1 NOTE		
4.	ARE PROTECTIVE COATINGS APPLIED TO AIRCRAFT, AGE AND COMPONENTS IN ACCORDANCE WITH: -- AIRCRAFT SPECIFIC -- SUPPORT EQUIPMENT -- GENERAL COATINGS	-23 SERIES TO 35-1-3 TO 1-1-8		

(LCAP) LII ____, CORROSION CONTROL PROGRAM INSPECTION GUIDE				
ITEM #	ITEM	REFERENCE(S)	COMMENTS	YES / NO
5.	ARE CLEAR WATER RINSE REQUIREMENTS BEING PROPERLY DOCUMENTED AND COMPLETED?	TO 1-1-691 PARA 3.2.3 PARA 3.5.3		
6.	ARE TEMPORARY PAINT REPAIRS COMPLETED ON AIRCRAFT SUPPORT EQUIPMENT?	TO 35-1-3 PARA 3.3.3 TO 1-1-691 PARA 3.7		
7.	IS THERE A SCORING SYSTEM IN PLACE AND PROPERLY UTILIZED TO DETERMINE PRIORITIZATION FOR REPAIR OF AIRCRAFT AND SUPPORT EQUIPMENT?	PACAFI 21-105 PARA 3.16.2		



Corrosion Control Work Group (CCWG)

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CCWG Membership

- **Chairperson: Deputy Chief, Maintenance Division**
- **Working Group Leader: Fabrications FAM**
- **Members**
 - **Wing Corrosion Managers**
 - **Mission Support Group (MSG) and other base agencies as needed**
 - **HQ PACAF/A7/SG/SE/CCO will act as advisors and attend as needed**
 - **Government Contractors & Individual Users as needed**
 - **The Air Force Corrosion Prevention and Control Office (AFCPCO) in an advisory capacity**



Corrosion Control Work Group (CCWG)

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CCWG Schedule/Objectives

- **Schedule**
 - **Convene quarterly**
 - **Annually in conjunction with AF corrosion conference**
- **Objectives**
 - **Discuss current LIMFACs and way-forward**
 - **Make recommendations to appropriate agencies**
 - **Discuss new technologies**
 - **Advocate for support and funding of corrosion prevention and control initiatives**



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Controlled Humidity Protection (CHP)

CHP

- **Methods**
- **Current use**
- **PACAF status**





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Questions?



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