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Follow-up on Internal Audit: Fixed-Wing Search and Rescue (FWSAR) Project

March 2014

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Canada 

Caveat

The result of this work does not constitute an audit of the FWSAR project. Rather, this report was prepared to provide reasonable assurance that the Management Action Plans (MAP) that resulted from the May 2009 FWSAR project audit were implemented as stated and as such have addressed the associated recommendations.



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Acronyms and Abbreviations

ADM(Fin CS)	Assistant Deputy Minister (Finance and Corporate Services)
ADM(Mat)	Assistant Deputy Minister (Materiel)
AERMS	Audit and Evaluation Recommendation Management System
CID	Capability Investment Database
Comd	Commander
CRS	Chief Review Services
DND	Department of National Defence
FWSAR	Fixed-Wing Search and Rescue
ISSC	In-Service Support Contract
L1	Level 1
MAP	Management Action Plan
OPI	Office of Primary Interest
PAD	Project Approval Directive
PO&M	Personnel, Operations and Maintenance
RCAF	Royal Canadian Air Force
SOR	Statement of Requirements
SRB	Senior Review Board
SSI	Statement of Support Intent
VCDS	Vice Chief of the Defence Staff



Service Support Contract (ISSC) framework. While the FWSAR will operate out of the main operating bases in Canada, the intention of the Canadian Armed Forces performing first- and second-line support was not consistent with three other “critical role” fleets,³ where all support had been outsourced for non-deployable aircraft.

Financial Management. The estimated savings in personnel, operations and maintenance (PO&M) of ||| in the FWSAR project submission were overstated because some of the assumptions used in the calculation were inaccurate. In addition, cost validation was provided only on project acquisition PO&M costs, but not on recurring post-acquisition costs.

Risk Management. The FWSAR project did not have a detailed risk management plan to manage risks in accordance with DND risk management guidelines.

In order to address these issues, six recommendations were put forward. The Vice Chief of the Defence Staff (VCDS), Assistant Deputy Minister (Finance and Corporate Services) (ADM(Fin CS)) and Assistant Deputy Minister (Materiel) (ADM(Mat)) developed a set of MAPs to address the audit recommendations specific to their areas of responsibility.

³ CC150 Polaris, CC144 Challenger, and the CH149 Cormorant, are defined as critical role fleets in the In-Service Support Contracting Framework.



2.0 Methodology

This audit follow-up is the outcome of a review of documentation and evidence to assess the progress made in implementing the MAP, based on the assessment criteria in [Annex A](#). The following methods were used:

- Analysis of data from the Audit and Evaluation Recommendation Management System (AERMS)⁴ and the Capability Investment Database (CID).
- Interviews with personnel from the FWSAR project office and VCDS, ADM(Mat) and ADM(Fin CS) staff.
- Review of key project documentation and policies pertaining to the MAP.

Statement of Conformance

The audit follow-up conclusions contained in this report are based on sufficient and appropriate audit evidence gathered in accordance with procedures that meet the Institute of Internal Auditors' *International Standards for the Professional Practice of Internal Auditing*. The audit follow-up thus conforms to the Internal Auditing Standards for the Government of Canada, as supported by the results of the quality assurance and improvement program. The opinions expressed in this report are based on conditions as they existed at the time of the audit follow-up, and apply only to the entity examined.

⁴ AERMS is a system that tracks the progress of the MAP items.



3.0 Overall Assessment

The follow-up on the May 2009 audit identified that progress has been made in some areas. For example, there have been improvements in the areas of the project's SOR, risk management, and SSI. As well, there were improvements in the PAD to develop mandatory requirements.

At the time of follow-up, the project had 7 out of 11 MAPs designated as fully completed in the AERMS. Upon further examination of the 11 MAPs, three of the completed MAPs were found to require additional measures to fully address the issues, and the four MAPs that were under way were found to be complete as portrayed in the scorecard in [Annex B](#). As for those MAPs that have yet to be fully addressed at the time of the follow-up, the majority are scheduled to be implemented by 2014 due to the systemic nature of the issues. An implementation status of the MAP items can be found in [Annex C](#).

Until all MAPs are fully implemented, there remain risks in the following areas:

- **Capability Deficiency.** The absence of a more thorough options analysis (including the analysis of capability deficiencies with the status quo) will hinder the ability to identify the full impact of the limitations of the existing FWSAR aircraft in operations and training.
- **Project Governance.** Until all project SRBs meet on an annual basis and the CID is updated on a regular basis, this will contribute to shortfalls in project oversight.

For the purpose of monitoring the implementation of the action plans that have not yet been fully implemented, the AERMS status of these action plans will be revised by CRS to fully reflect the results of this audit follow-up.



Annex A—Assessment Criteria

Line of Enquiry: Progress made on the 2009 Audit Recommendations

Progress has been made on the implementation of the MAPs identified in the FWSAR audit tabled in 2009.

The following criteria were used to assess the level of completion for each MAP item.

1. No Progress or Insignificant Progress (0-24% complete)

No action taken by management or insignificant progress. Actions such as striking a new committee, having meetings and generating informal plans are insignificant progress.

2. Planning Stage (25-49% complete)

Formal plans for organizational changes have been created and approved by the appropriate level of management (at a sufficiently senior level, usually at the Executive Committee level or equivalent) with appropriate resources and a reasonable timetable.

3. Preparation for Implementation (50-74% complete)

The entity has begun necessary preparation for implementation, such as hiring or training staff, or developing or acquiring the necessary resources to implement the recommendation.

4. Substantial Implementation (75-99% complete)

Structures and processes are in place and integrated in some parts of the organization, and some achieved results have been identified. The entity has a short-term plan and timetable for full implementation.

5. Full Implementation (100% complete)

Structures and processes are operating as intended and are implemented fully in all intended areas of the organization.

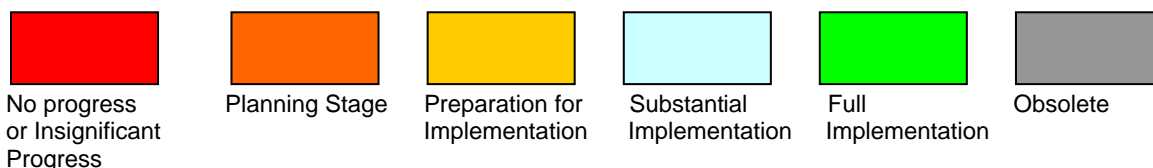
6. Obsolete

Audit recommendations that are deemed to be obsolete or have been superseded by another recommendation.

Annex B—Management Action Plan Scorecard

Recommendation #	MAPs	OPI	CRS Assessment of Progress on MAPs
1.a) Overdue SRBs	Projects in the CID will be reviewed for overdue SRBs; affected Level 1s (L1) will be contacted.	VCDS	No Progress or Insignificant Progress New target Date: April 2014
1.b) SRB Checklists	Director Force Planning and Program Coordination analysts will ensure Programme Management Board submissions contain SRB checklist.	VCDS	Obsolete
1.c) Quarterly Review of CID	Director Force Planning and Program Coordination will implement quarterly review of CID projects to determine out of date material.	VCDS	No Progress or Insignificant Progress New target date: April 2014
2. Capability Deficiencies	SOR will be revised to include operational impact of maintaining status quo.	Comd Royal Canadian Air Force (RCAF)	Preparation for Implementation by April 2014
3.a) Developing Mandatory Requirements	The Department will determine where these guidelines should reside.	VCDS	Full Implementation
3.b) SOR	All items identified by original audit will be reviewed for latest SOR.	Comd RCAF	Full Implementation
4.a) SSI	The SSI is undergoing review and all necessary revisions will be made.	Comd RCAF	Full Implementation
4.b) SSI Aligned with the ISSC Framework	The 2005 version of SSI will be modified so that the project is aligned with current ISSC guidelines.	ADM(Mat)	Full Implementation
5.a) PO&M Costs	The recurring PO&M costs will be reviewed to ensure accuracy of figures from both an operational and maintenance perspective.	ADM(Mat)	Full Implementation
5.b) PO&M Estimates Methodology	The Department will explore methodologies to improve recurring PO&M estimates.	ADM(Fin CS)	Substantial Implementation
6. Project Risk Management	The risk management plan will align with current departmental guidelines.	ADM(Mat)	Substantial Implementation

Table B-1. Management Action Plan Scorecard. This table shows the CRS assessment of progress on the MAP.



Annex C—Summary of Management Action Plan Status

Recommendation 1—“For all projects, ensure project leaders ensure SRBs are held in accordance with the Project Approval Guide and that checklists are submitted accordingly. Implement measures to improve capital project information in the CID and follow up where information is not reliable.”

Overall Assessment—No progress or insignificant progress

MAPs	OPI	Target Date	Progress to Date	Status of Action Item
1.a) Projects in the CID will be reviewed to determine overdue SRBs. Affected L1s will be contacted to set a date for SRB completion.	VCDS	April 2009	The PAD ⁵ states that, as a minimum, the SRB will meet at least annually to review project performance, progress, and the risk management plan. The project’s Director Defence Programme Coordination analyst is responsible to ensure that the project holds at least an annual SRB. ⁶ An SRB health report ⁷ completed in October 2013 showed that 52 percent of projects ⁸ had no SRB data (down from 59 percent in 2009); 27 percent of SRBs were on schedule (up from 26 percent); and 21 percent of projects had an overdue SRB (up from 15 percent). VCDS staff will address this issue by April 2014.	No Progress or Insignificant Progress

⁵ Chapter C.15.11.10 of the PAD.

⁶ Chapter A.2.1.8 of the PAD states the first SRB will be held as soon as possible after project starts but not before the Project Charter and options analysis plan are ready for approval.

⁷ For the selected projects, the SRB health report takes the milestone actual date or, if null, the expected forecast date for last SRB meeting. This date is compared to last year’s meeting date.

⁸ The SRB health report included all 513 projects at Options Analysis, Definition and Implementation stage at the time of the audit follow-up.

MAPs	OPI	Target Date	Progress to Date	Status of Action Item
<p>1.b) Director Defence Program Coordination analysts will ensure Annex G of Programme Management Board submissions will include SRB checklists in accordance with the Program Guidance Memo of 02/08.</p>	<p>VCDS</p>	<p>April 2009</p>	<p>A sample of 11 projects tabled at the Programme Management Board between January and August 2013 showed that only 1 of the 11 included an SRB checklist. Although the SRB checklists were mandatory under the Project Approval Guide, they were superseded by the PAD in October 2011, which does not explicitly require the checklists.⁹</p>	<p>Obsolete</p>
<p>1.c) Director Defence and Programme Coordination staff will implement a quarterly review of CID projects to determine out-of-date material, and then work with Project Leaders to provide updates.</p>	<p>VCDS</p>	<p>June 2009</p>	<p>Rather than undertaking quarterly reviews of the CID, the Director Defence Programme Coordination ensures that key project documents, such as the Project Brief, and Project Complexity and Risk Assessment, are entered in the CID prior to any expenditure approval of the project. Although the Force Capability Plan 2013 requires quarterly updates of project information in the CID for investment planning purposes, and ADM(Mat)¹⁰ has directed that the CID be updated monthly for equipment projects; there is no requirement under the PAD to perform quarterly reviews of the CID. The VCDS intends to provide more specific direction on the frequency of CID project information updates in the PAD</p>	<p>No Progress or Insignificant Progress</p>

⁹ PAD, section C.15.11.14, states “the project team consults the SRB checklist to ensure all necessary topics have been covered prior to SRB.”

¹⁰ ADM(Mat) 1000-1 Memorandum, 14 August 2003.



MAPs	OPI	Target Date	Progress to Date	Status of Action Item
			depending on the project phase, by April 2014.	

Table C-1. Status of the Implementation of the MAP Items for Recommendation 1. The overall assessment for these MAPs is no progress or insignificant progress.

Recommendation 2—“Ensure that the FWSAR project office includes the impact of the capability deficiencies, as well as the cost of delaying the project in the SOR, and any other pertinent documents.”
Overall Assessment—Preparation for implementation

MAPs	OPI	Target Date	Progress to Date	Status of Action Item
2. The FWSAR SOR operational impact of maintaining the status quo beyond 2010 will be revised to address the impact of maintaining these fleets beyond 2015—the current FWSAR project timeline. The Project Profile and Risk Assessment is currently being revised.	Comd RCAF	April 2009	Although the project documents have been revised, the SOR (version 6.1) and the latest Project Brief (9 February 2012) do not factor in the impact of the current capability deficiencies. For example, in terms of fleet availability, there was no mention of the effect on operations and training due to the current fleet’s reduced yearly flying rate. The SOR will be revised by April 2014.	Preparation for Implementation

Table C-2. Status of the Implementation of the MAP Items for Recommendation 2. The overall assessment for these MAPs is preparation for implementation.



Recommendation 3 —“Develop guidelines in the Project Approval Guide for project staff to develop mandatory requirements. Re-assess the requirements in the FWSAR SOR and revise the SOR and draft Statement of Interest and Qualifications accordingly.” Overall Assessment —Full implementation				
MAPs	OPI	Target Date	Progress to Date	Status of Action Item
3.a) Chief of Programme will meet with Chief Force Development to determine where these guidelines should reside.	VCDS	May 2009	The Capability-Based Planning Handbook provides a conceptual look at how to develop mandatory requirements against the capabilities that are assessed. Also, the PAD refers to this handbook as the guide to determining the capability-based planning process.	Full Implementation
3.b) Re-assess the requirements in the FWSAR SOR and revise the SOR and draft Statement of Intent and Qualifications accordingly.	Comd RCAF	June 2009	The SOR has been revised in light of the independent review done by the National Research Council and thus also the procurement strategy. A capability-based approach will be used where bidders will be required to propose the number of aircraft and basing locations to meet operational requirements. A Request for Proposal will be issued.	Full Implementation

Table C-3. Status of the Implementation of the MAP Items for Recommendation 3. The overall assessment for these MAPs is full implementation.



Recommendation 4 —“In conjunction with ADM(Mat), consider updating the SSI plan to align with the ISSC framework.”				
Overall Assessment —Full implementation				
MAPs	OPI	Target Date	Progress to Date	Status of Action Item
4.a) The SSI is undergoing review and all necessary revisions will be made.	Comd RCAF	By Effective Project Approval	The project has revised its SSI and has addressed issues relating to maintenance responsibilities and intellectual property rights.	Full Implementation
4.b) In cooperation with Comd RCAF, ADM(Mat) intends to modify the 2005 version of the SSI where required. Materiel Group Program Management Committee was briefed in October 2008 that the project will be aligned with current ISSC guidelines.	ADM (Mat)	By Effective Project Approval	Defence Administrative Orders and Directives 3022-1, regarding the ISSC framework, has included the FWSAR as a critical role fleet. Therefore, DND is to perform first-line and limited second-line maintenance to ensure deployable flexibility. In accordance with the framework, the current SSI has identified the need for in-service support performance metrics, and has also indicated that DND and contractor integration will be achieved through the Defence Resource Management Information System and the Air Force Integrated Information Learning Environment.	Full Implementation

Table C-4. Status of the Implementation of the MAP Items for Recommendation 4. The overall assessment for these MAPs is full implementation.



MAPs	OPI	Target Date	Progress to Date	Status of Action Item
5.b) Director Costing Services, in conjunction with Director Materiel Group Comptroller, will explore the methodologies to improve recurring PO&M estimates. This improvement will be incorporated in the Strategic Cost Model to support the <i>Canada First</i> Defence Strategy implementation.	ADM (Fin CS)	July 2010	Since June 2013, cost analysts with project office staffs have used a cost template developed in 2011 to capture PO&M costs. These actions will enhance the rigour and accuracy of the life cycle estimates, and the cost data will eventually be incorporated in the Strategic Cost Model. CRS recommends that this MAP be closed.	Substantial Implementation

Table C-5. Status of the Implementation of the MAP Items for Recommendation 5. The overall assessment for these MAPs is substantial implementation.

Recommendation 6—“Develop an FWSAR risk management plan that incorporates the DND/Canadian Armed Forces integrated risk management guidelines, and re-evaluate the risks identified and their level of impact on the project.”
Overall Assessment—Substantial implementation

MAPs	OPI	Target Date	Progress to Date	Status of Action Item
6. The FWSAR project management office is committed to incorporating a comprehensive risk management process. The risk management plan will align with current departmental guidelines, and the Project Profile and Risk Assessment has been updated. It should be reiterated that	ADM (Mat)	By Formal Definition phase	The project has revised its risk management plan to align with the DND Integrated Risk Management Guidelines. The risk management plan now includes clear information on addressing risks, stakeholder roles and responsibilities, and criteria for the assessment of risk impact and probability. The risk	Substantial Implementation

MAPs	OPI	Target Date	Progress to Date	Status of Action Item
<p>the original FWSAR project never formally entered the definition phase; therefore, the risk management process was not as rigorous as it would have been if the project had progressed.</p>			<p>management plan is also in line with the Project Management Body of Knowledge. The project risk radar maintains and tracks project risks while allowing the project to assess impact and probability on five levels. However, there is still room for improvement, as there are inconsistencies between the project brief and the risk radar results with regards to the risk severity level. Due to the absence of the log of historical events in risk radar, it is not possible to determine the cause for inconsistent reporting of inherent risk severity levels in the project brief. Consistent reporting of risk severity assessments will be addressed by April 2014.</p>	

Table C-6. Status of the Implementation of the MAP Items for Recommendation 6. The overall assessment for these MAPs is substantial implementation.