Project Data Summary Sheet 126

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Project Number	AIR 9000 Phase 8
Project Name	FUTURE NAVAL AVIATION
	COMBAT SYSTEM
First Year Reported in the	2011-12
MPR	2011-12
	Danisassass
Capability Type	Replacement
Acquisition Type	MOTS
Capability Manager	Chief of Navy
Government 1st Pass	Feb 10
Approval	
Government 2nd Pass	Jun 11
Approval	
Budget at 2nd Pass	\$3,029.6m
Approval	
Total Approved Budget	\$3,4 30.3 m
(Current)	
2017–18 Budget	\$243.6m
Project Stage	Initial Materiel Release
Complexity	ACAT II



Section 1 - Project Summary

1.1 Project Description

AIR 9000 Phase 8 has acquired 24 MH-60R Seahawk Romeo naval combat helicopters, associated weapons and support systems to replace the current 16 S-70B-2 Seahawk Bravo helicopters and the cancelled SH-2G(A) Seasprite helicopters. The aircraft is equipped with a highly sophisticated avionics suite designed to employ Hellfire air-to-surface missiles and Mark (Mk) 54 anti-submarine torpedoes. The aircraft will provide Navy with a contemporary helicopter with anti-submarine warfare (ASW) and anti-surface warfare capability.

The acquisition of 24 helicopters will enable the Navy to deploy at least eight Seahawks embarked at sea across the ANZAC class frigates and the new *Hobart* class Air Warfare Destroyers (AWD).

1.2 Current Status

Cost Performance

In-year

The overspend of \$11.7m as at 30 June 2018 is primarily due to the \$24.3m AUD part payment of the additional Termination Liability for FMS case AT-P SCF brought forward from 2018-19, in addition to the increased June forecast for disbursement activity. This was offset by the deferral of the deposit for a new FMS case, and delays in AWD Ship Integration and DSTG Science and Technology Work.

Project Financial Assurance Statement

As at 30 June 2018, project AIR 9000 Phase 8 has reviewed the approved scope and budget for those elements required to be delivered by the project. Having reviewed the current financial and contractual obligations of the project, current known risks and estimated future expenditure, Defence considers, as at the reporting date, there is sufficient budget remaining for the project to complete against the agreed scope.

Contingency Statement

The project has not applied contingency in the financial year.

Schedule Performance

Materiel Release Two (MR2) milestone was achieved 19 December 2016. The next major milestone will be Materiel Release Three (MR3), which is expected to be achieved in March 2019. This milestone is defined as twenty four aircraft in United States Navy (USN) configuration accepted, with sufficient logistics support, including Ships Allowance Limit (SAL), Pack Up Kits (PUKs) and sufficient internal (crew served) machine guns to support eight flights at sea.

126 Notice to reader

Forecast dates and Sections: 1.2 (Materiel Capability Delivery Performance), 1.3 (Major Risks and Issues), 4.1 (Measures of Materiel Capability Delivery Performance), and 5 (Major Risks and Issues) are excluded from the scope of the ANAO's review of this Project Data Summary Sheet. Information on the scope of the review is provided in the Independent Assurance Report by the Auditor-General in Part 3 of this report.

Materiel Capability Delivery Performance

The MH-60R Seahawk helicopter being procured is a Military Off the Shelf (MOTS) product from the USN. The MH-60R Seahawk has been in service with the USN since 2005 and was first deployed operationally by the USN in early 2010. The Australian Defence Force (ADF) has accepted delivery of 24 MH-60R aircraft, and there are currently no known impediments to the Project achieving the materiel capability performance requirements. The aircraft delivery schedule resulted in ADF MH-60Rs being delivered earlier than forecast at Second Pass.

Note

Forecast dates and capability assessments are excluded from the scope of the review.

1.3 Project Context

Background

The Defence White Paper 2009 stated that 'As a matter of urgency, the Government will acquire a fleet of at least 24 new naval combat helicopters to provide eight or more aircraft concurrently embarked on ships at sea. These new aircraft will possess advanced ASW capabilities, including sonar systems able to be lowered into the sea and air-launched torpedoes, as well as an ability to fire air-to-surface missiles.'

First Pass Approval for the acquisition of the Future Naval Aviation Combat System to satisfy this requirement was provided by Government on 24 February 2010.

The selection of the MH-60R followed a competitive solicitation process between a US Government FMS case offering the Sikorsky / Lockheed Martin MH-60R Seahawk and a direct commercial sale from Australian Aerospace (now Airbus Group Australia Pacific (AGAP) offering the NATO Helicopter Industries NH90 NATO Frigate Helicopter. Second Pass Approval for acquisition of the MH-60R was provided by Government on 15 June 2011.

Project SEA 5510 Stage 1 was approved by Government in June 2017, for the purpose of upgrading the MH-60R Seahawk's combat system, sensors, weapons and countermeasures throughout their operational life to maintain commonality and supportability with the United States Navy. AUD \$527.7m has been approved for Stage 1 from financial year 2018/19 to 2028/29.

Uniqueness

The Australian MH-60R helicopter has been acquired as a MOTS product, in the same baseline configuration as the USN aircraft. A limited number of Australian unique design modifications are being incorporated now that all aircraft have been delivered. The USN will develop the modifications for incorporation in Australian and USN MH-60R aircraft.

The MH-60R is being acquired as a maritime combat capability. It will have limitations in utility roles such as passenger or cargo transfer

Major Risks and Issues

The Project Office (PO) is currently managing three open risks with the highest level of pre-mitigation risk being medium, whilst also managing two open issues. However, there are currently no major risks or issues in achieving the MH-60R operational capability milestones on schedule.

Other Current Sub-Projects

Project AIR 9000 Phase 7 Helicopter Aircrew Training System (HATS). HATS will be an important link in the training continuum for inductees to the MH-60R training system.

Project AIR 9000 Phase 2/4/6 Multi-Role Helicopter. The acquisition of 47 helicopters to replace the current Army Black Hawk fleet and Navy Sea King fleet.

Project SEA 4000 Phase 3 Air Warfare Destroyer. AIR 9000 Phase 8 is to fund the modifications of the Hobart Class for interoperability with the MH-60R Seahawk 'Romeo' helicopter.

Note

Major risks and issues are excluded from the scope of the review.

Section 2 - Financial Performance

2.1 Project Budget (out-turned) and Expenditure History

Date	Description	\$m	Notes
	Project Budget		
Aug 09	Original Approved	0.3	1
Jun 10	Real Variation – Budgetary Adjustment	9.6	2
Jun 11	Government Second Pass Approval	3,019.7	
	Total at Second Pass Approval	3,029.6	
Jun 14	Real Variation – Budgetary Adjustment	(39.2)	3
Jul 10	Price Indexation	0.1	4
Jun 18	Exchange Variation	439.8	
Jun 18	Total Budget	3,430.3	
	Project Expenditure		
Prior to Jul 17	Contract Expenditure – US Government (AT-P-SCF)	(1,721.0)	5
	Contract Expenditure – US Government (AT-P-AHV)	(88.4)	5
	Contract Expenditure – US Government (AT-B-ZBZ)	(20.2)	5
	Contract Expenditure – Navy – Empire Test Pilots' School	(7.4)	

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ĺ		Contract Expenditure – US Government (AT-P-GTC)	(3.5)		5			
		Other Contract Payments / Internal Expenses		(1,965.1)	6			
FY to Jun 18		Contract Expenditure – US Government (AT-P-SCF) Contract Expenditure – US Government (AT-P-KOA) Contract Expenditure – US Government (AT-P-AHV)	(154.9) (53.8) (24.9)		5 5 5			
		Other Contract Payments / Internal Expenses	(21.7)		7			
Jun	18	Total Expenditure		(255.4) (2,220.5)				
Jun	10	Remaining Budget		1,209,8				
Jun	10	Remaining Budget		1,209.0				
Note	es							
1	This amount re	epresents the project Budget prior to achieving Second Pass Approval by	Government.					
2	Project Develo	opment Funds.						
3	Facilities Budo	get Transfer to Defence Support and Reform Group.						
4	4 Up until July 2010, indexation was applied to project budgets on a periodic basis. The cumulative impact of this approach was \$0.1m, applied only to the portion of the budget approved at First Pass. From July 2010 all project budgets were approved by Government in out-turned dollars including AIR 9000 Phase 8.							
5	The scope of this contract is explained further in Section 2.3 – Details of Project Major Contracts.							
6	Other includes travel, contractor support, legal support, Non-FMS Procurements, ANZAC and AWD Ship Modifications, and general support activities.							
7	consumables	s procurement of ANZAC, AWD and FFG Ship Modifications, contractor s s, minor contract expenditure, Facility related expenditure, Freight, gene ject Team and Technical Services.						

2.2A In-vear Budget Estimate Variance

.ZA III-year Budget Estimate variance									
Estimate	Estimate	Estimate	Explanation of Material Movements						
PBS \$m	PAES \$m	Final Plan \$m							
294.3	241.8	243.6	PBS to PAES: The variance is due to the refinement of additional spares purchases as well as revised facilities, ship integration and Foreign Military Sales programmed activities. PAES to Final Plan: The variance is minor.						
Variance \$m	(52.5)	1.8	Total Variance (\$m): (50.7)						
Variance %	(17.8)	0.7	Total Variance (%): (17.2)						

2.2B In-year Budget/Expenditure Variance

z.zb iii-yeai buuge	t/Experiulture v	anance		
Estimate	Actual	Variance	Variance Factor	Explanation
Final Plan \$m	\$m	\$m		
		(1.9)	Australian Industry	The Project has achieved \$255.3m spend
		18.2	Foreign Industry	for the FY 17/18. The variance is due to
			Early Processes	the part payment of the additional
		(4.5)	Defence Processes	Termination Liability for FMS case AT-P
			Foreign Government	SCF brought forward from 2018-19, in
			Negotiations/Payments	addition to the increased June forecast
			Cost Saving	for disbursement activity. This is offset
			Effort in Support of Operations	by delays in invoice receipt for the AWD
			Additional Government	Ship Integration and DSTG Science and
			Approvals	Technology Work.
243.6	255.4	11.8	Total Variance	
		4.8	% Variance	

2.3 Details of Project Major Contracts

Contractor	Signature		Price at	Type (Price	Form of Contract	Notes
	Date	Signature \$m	30 June 18 \$m	Basis)		
US Government (AT-P-SCF)	Jun 11	2,090.3	2,409.7	Variable	FMS	1, 3
US Government (AT-P-AHV)	Aug 11	168.1	194.3	Variable	FMS	1, 3
US Government (AT-B-ZBZ)	Jan 12	12.3	20.2	Variable	FMS	1, 2, 3

US Government (AT-P- GTC)	Feb 13	10.9	14.1	Variable	FMS	1, 3, 4
US Government (AT-P- KOA)	May 17	53.8	53.8	Variable	FMS	1,3, 5

lotes

- 1 The scope of this contract is explained further below.
- 2 Increased quantity of Tactical and Training Missiles in FMS Case.
- 3 Contract value as at 30 June 2018 is based on actual expenditure to 30 June 2018 and remaining commitment at current exchange rates, and includes adjustments for indexation (where applicable).
- 4 Contract AT-P-GTC was closed in July September 2017 Quarter, with formal advice being received on 5 Mar 18 that no further billing will be received on this contract.
- 5 This contract was signed in financial year 2016/17 with payment made in financial year 2017/18.

	Quantities as at			
Contractor	Signature	30 June 18	Scope	Notes
US Government (AT-P-SCF)	24	24	MH-60R, synthetic training devices, and associated mission and support systems	
US Government (AT-P-AHV)	Classified	Classified	Mk 54 Torpedoes	
US Government (AT-B-ZBZ)	Classified	Classified	AGM-114N Hellfire Air to Surface Missiles	
US Government (AT-P-GTC)	N/A	N/A	RAN MH-60R Detachment – Naval Air Station Jacksonville, Florida support	
US Government (AT-P-KOA)	N/A	N/A	MH-60R aviation spares	

Major equipment received and quantities to 30 June 18

A quantity of Mk 54 Torpedos delivered in August 2014

A quantity of Hellfire Missiles delivered in August 2014

'BRomeo' Seahawk Training Device delivered in October 2014

Tactical Operational Flight Trainer 1 delivered in February 2015

Aircraft 1 through 24 were delivered between December 2013 and August 2016

Rear Crew Trainer delivered in August 2016

Tactical Operational Flight Trainer 2 delivered in October 2016

Helicopter Support Facility (HMAS Stirling) was accepted in December 2016

Composite Maintenance Trainer delivered in December 2017

Section 3 - Schedule Performance

3.1 Design Review Progress

Review	Major System / Platform Variant	Original Planned	Current Planned	Achieved /Forecast	Variance (Months)	Notes
System	MH-60R Helicopter	N/A	N/A	N/A	N/A	1
Requirements	ADF Mission System Options – Phase 1	Jan 14	Jan 14	Apr 14	3	2
	ADF Mission System Options – Phase 2	Nov 14	Nov 14	Nov 14	0	2
	Air Warfare Destroyer	Dec 14	Dec 14	Jan 15	1	3
Preliminary	MH-60R Helicopter	N/A	N/A	N/A	N/A	1
Design	ADF Mission System Options – Phase 1	Mar 14	Mar 14	Jun 14	3	2
	ADF Mission System Options – Phase 2	Mar 15	Mar 15	Apr 15	1	2
	Air Warfare Destroyer	Dec 15	May 17	May 17	17	3
Critical Design	MH-60R Helicopter	N/A	N/A	N/A	N/A	1
3	ADF Mission System Options – Phase 1	Jun 14	Jun 14	Jun 14	0	2
	ADF Mission System Options – Phase 2	May 15	May 15	May 15	0	2
	Air Warfare Destroyer	Dec 16	Dec 17	Dec 17	12	3

Notes

MH-60R helicopter system requirements and design reviews were not required as it a MOTS helicopter procured through FMS.

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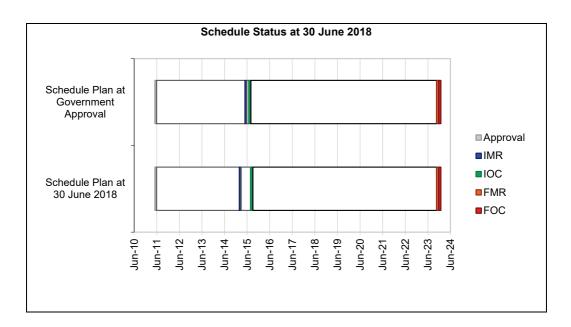
- The ADF Mission System Options were split into two phases. Phase 1 Statements of Work (SOWs) for ADF Unique Mission System Options were agreed by the PO, USN, Sikorsky and Lockheed Martin. Director General Technical Airworthiness has endorsed SOWs in accordance with Technical Airworthiness Regulations. Dates are reflective of Phase 1 design reviews. SOW for Phase 2 was released as part of USN request for tender 26 February 2014, with contract signature with Lockheed Martin achieved in October 2014.
- The AWD requires modification to enable the MH-60R aircraft to operate at full capability as the AWD certification baseline is based on a classic Seahawk aircraft. The modification works required to integrate the MH-60R aircraft will be conducted following the delivery of each AWD. With the reorganisation of the AWD Alliance the aviation upgrade effort has been delayed.

3.2 Contractor		

Test and Evaluation	Major System / Platform Variant	Original Planned	Current Planned	Achieved /Forecast	Variance (Months)	Notes
System	ADF Mission System Options – Phase 1	Aug 15	Aug 15	Aug 15	0	1
Integration	ADF Mission System Options – Phase 2	Sep 18	Jan 20	Jan 20	16	1, 2
	Air Warfare Destroyer	TBA	TBA	TBA	TBA	3
Acceptance	ADF Mission System Options – Phase 1	Aug 16	Aug 16	Sep 16	1	1
	ADF Mission System Options – Phase 2	Sep 18	Jul 19	Jul 19	10	1, 2
	Acceptance of first MH-60R	Jun 14	Dec 13	Dec 13	(6)	4
	Acceptance of final MH-60R	Sep 18	Aug 16	Aug 16	(25)	4
	Air Warfare Destroyer	TBA	TBA	TBA	TBA	3
Notes						
1	The ADF Mission System Options were split in was agreed by the PO, USN, Sikorsky and Lofor tender 26 February 2014, and contract significant significant strength of the ADF Mission System Option Strength of the ADF Mission System Option Sys	ockheed Martin	. SOW for Ph	ase 2 was relea	ased as part of	USN request
2	Schedule delays have been experienced control over the development schedule wi					
3	Confirmed schedule dates for the Air Warfare Destroyer (HMAS Hobart only) System Integration and Acceptance dates will be known by October 2018 and dates for HMA Ships Brisbane and Sydney are yet to be advised.					
4	The project negotiated early delivery date Offer and Acceptance. This was, in part of years of the program.					

3.3 Progress Toward Materiel Release and Operational Capability Milestones

Item		Planned	/Forecast	(Months)	Notes	
In-Servic	e Date (ISD)	Jun 14	Jan 14	(5)	1	
Initial Ma	teriel Release (IMR)	Jun 15	Mar 15	(3)	2	
Initial Op	erational Capability (IOC)	Aug 15	Sep 15	1	3	
Materiel I	Release 2 (MR2)	Dec 16	Dec 16	0	4	
Materiel I	Release 3 (MR3)	Jun 19	Mar 19	(3)	5	
Materiel I	Release 4 (MR4)	Dec 20	Dec 23	36	6	
Final Mat	eriel Release (FMR)	Dec 23	Dec 23	0		
Final Ope	erational Capability (FOC)	Dec 23	Dec 23	0		
Notes						
1	Revised aircraft delivery schedule.					
2	The project declared IMR in March 2015, three mo in July 2015.	onths ahead of sch	edule and the Cap	ability Manager siç	ned-off IMR	
3	The Capability Manager declared IOC on 25 September 2015, 25 days later than originally scheduled. Navy linked MH-60R IOC to Anzac Class ship aviation upgrades, which resulted in extra technical assessments that resulted in the minor delay.					
4	The project achieved MR2 in December 2016 on so	chedule.		•		
5	The MR3 milestone schedule has been brought forward in the last MAA update (V3.3) to align with the Capability Realisation Plan Operational Capability Milestone OC3.					
6	The MR4 milestone schedule has been delayed in the last MAA update (V3.3) to align with the Capability Realisation Plan Operational Capability Milestone OC4.					

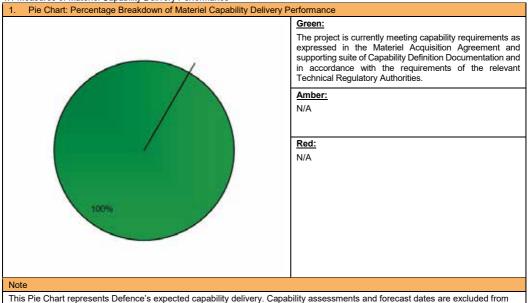


Note

Forecast dates in Section 3 are excluded from the scope of the review.

Section 4 - Materiel Capability Delivery Performance

4.1 Measures of Materiel Capability Delivery Performance



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the scope of the review

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4.2 Constitution of Initial Materiel Release and Final Materiel Release

Item	Explanation	Achievement
Initial Materiel Release (IMR)	Five aircraft in USN configuration, Tactical Operational Flight Trainer and supporting systems, Establishment of key Sustainment organisations, Initial stock of Mk 54 Torpedoes and Hellfire Missiles, and Modification of one ANZAC class ship for interoperability with MH-60R Seahawk helicopter.	Achieved
Final Materiel Release (FMR)	All 24 aircraft delivered and Australian Mission System Options implemented, Full EO fit-out and all Mk 54 Torpedos and Hellfire Missiles delivered, All ANZAC class ships and Air Warfare Destroyers modified for interoperability with MH-60R Seahawk helicopter, and Final Training Management Package. Achievement is scheduled for December 2023.	Not yet achieved

Section 5 - Major Risks and Issues

5 1 Major Project Risks

5.1 Major Project Risks				
Identified Risks (risk identified by standard project risk management processes)				
Description Remedial Action				
N/A	N/A			
Emergent Risks (risk not previously identified but has emerged during 2017-18)				
Description	Remedial Action			
N/A	N/A			

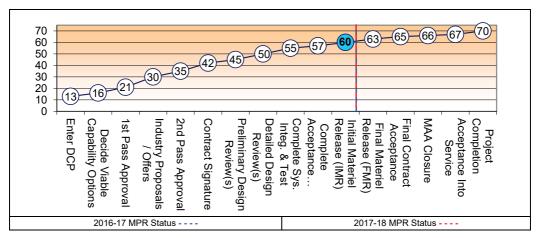
5.2 Major Project Issues

Description	Remedial Action
N/A	N/A

Note
Major risks and issues in Section 5 are excluded from the scope of the review.

Section 6 - Project Maturity

6.1 Project Maturity Score and Benchmark									
		Attributes							
Maturity S	Score	Schedule	Cost	Requirement	Technical Understanding	Technical Difficulty	Commercial	Operations and Support	Total
Project Stage	Benchmark	10	8	8	8	9	8	9	60
Initial Materiel Release	Project Status	9	9	8	8	9	8	10	61
	Explanation		dule: The Novery dates			ne is matur	e. The Pro	ject negotia	ated early
		Cost: The overall Estimate at Completion is projected to be within project guidance. The Project has benefited from economies of scale from the US Government multi-year buys of aircraft and key components.							
		Operations and Support: The capability achieved IOC and MH-60R Flights are now embarked on RAN Fleet Units.		Flights					



Section 7 - Lessons Learned

7.1 Key Lessons Learned

Project Lesson	Categories of Systemic Lessons
Whilst an FMS program affords a number of advantages, the transfer of a significant amount of project management and engineering functions to the US Government implementing agency (NAVAIR PMA-299) and the weak bargaining position of the Commonwealth, increases the project's exposure to risk (technical, schedule and cost). The resultant level of risk and complexity is often understated and poorly understood.	Contract Management
The level of Commonwealth contract and financial management involvement and oversight of industry is very low in comparison to that mandated for Direct Commercial Sale contracts, yet both procurement methods confront similar issues.	
Adequate Commonwealth participation in key project management and technical oversight activities in the US, as provided for in the Government Second Pass submission, is critical to provide the required level of contract management.	
The recruitment process lead times for candidates not already within the ADF or APS can create significant extended vacancies within the Project workforce, and this is exacerbated by the relatively short notice that Defence personnel are obliged to provide for internal transfers.	Resourcing
By procuring MOTS equipment, adhering to the project's clearly defined scope as detailed by government at Second Pass, and effectively using the Program Management Steering Group to prevent potential scope creep, the project has been able to meet or exceed its financial and schedule obligations as detailed within the project's Materiel Acquisition Agreement.	Off-The-Shelf Equipment

Section 8 - Project Line Management

8.1 Project Line Management in 2017-18

5.1 FTOJECT LINE MANAGEMENT IN 2017-10			
Position	Name		
Division Head	MAJGEN Andrew Mathewson AM (to Nov 17) Mr Shane Fairweather (Nov 17 – current)		
Branch Head	CDRE Scott Lockey CSC RAN		
Project Director	CAPT Malcolm Wright		
Project Manager	CMDR Michael Rainey RAN (to Jan 18) Mr Steven Dik (Jan 18 – current)		

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