Project Data Summary Sheet¹³⁶

Project Number	AIR 9000 Phase 8
Project Name	FUTURE NAVAL AVIATION COMBAT SYSTEM
First Year Reported in the MPR	2011-12
Capability Type	Replacement
Acquisition Type	MOTS
Capability Manager	Chief of Navy
Government 1st Pass Approval	Feb 10
Government 2nd Pass Approval	Jun 11
Total Approved Budget (Current)	\$3,462.5m
2016–17 Budget	\$141.0m
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 antisubmarine torpedoes. The aircraft will provide Navy with a contemporary helicopter with anti-submarine warfare (ASW) and antisurface 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 underspend of \$17.3m is primarily caused by delays in disbursements and delivery against the MK54 Torpedo FMS case. The Project has also experienced delays in invoicing for Facilities, minor Project related expenditure and ANZAC & AWD ship integrations. This has been partially offset by the increased expenditure on the MH-60R FMS Case and FOREX gains.

Project Financial Assurance Statement

As at 30 June 2017, 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), 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.

Twenty four aircraft have now been accepted.

136 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, as of 31 March 2017 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 for the period 2018 to 2028.

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 Australia 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 two 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.

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

		ut-turned) and Expenditure History	¢m	Nietee
Date		Project Budget	\$m	Notes
Aug	00	Original Approved	0.3	1
Jun		Real Variation – Budgetary Adjustment	9.6	2
Jun		Government Second Pass Approval	3,019.7	2
			(39.2)	3
Juli	Iun 14 Real Variation – Budgetary Adjustment		2.990.1	
Jul 1	0	Price Indexation		4
Jun		Exchange Variation	471.9	4
Jun		Total Budget	3.462.5	
Jun	17	Total Buuget	3,402.3	
		Project Expenditure		
Prior	r to Jul 16	Contract Expenditure – US Government (AT-P-SCF)	(1,683.9)	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)	-
		Contract Expenditure – US Government	(3.5)	5
		(AT-P-GTC)	. ,	
		Other Contract Payments / Internal Expenses	(85.7)	6
			(1,889.1)	
	o Jun 17	Contract Expanditure	(74.7)	F
FIL	o Jun 17	Contract Expenditure – US Government (AT-P-SCF)	(74.7)	5
		Contract Expenditure – US Government (AT-P-AHV)	(7.9)	5 5
		Other Contract Payments / Internal Expenses	(41.0)	5 7
		Stret Sonader Lyments / Internal Expenses	(123.7)	
		Total Expenditure	(2.012.8)	
			(2,012.0)	
Jun	17	Remaining Budget	1,449.7	
Note 1		presents the project Budget prior to achieving Second Pass Approva	hy Covernment	
			i by Government.	
2	Project Develop	oment Funds.		
3	Facilities Budge	et Transfer to Defence Support and Reform Group.		
4	Up until July 20	10, indexation was applied to project budgets on a periodic basis. T	The cumulative impact of this ap	proach was
		only to the portion of the budget approved at First Pass. From July	2010 all project budgets were a	approved by
	Government in	out-turned dollars including AIR 9000 Phase 8.		
			in a Quarter ata	
5		is contract is explained further in Section 2.3 - Details of Project Maj	jor Contracts.	
-	The scope of th		,	cations and
5 6	The scope of th	travel, contractor support, legal support, Non-FMS Procurements,	,	cations, and
6	The scope of th Other includes general support	travel, contractor support, legal support, Non-FMS Procurements, activities.	ANZAC and AWD Ship Modifie	
-	The scope of th Other includes general support Other includes	travel, contractor support, legal support, Non-FMS Procurements, activities.	ANZAC and AWD Ship Modific	cility
6	The scope of th Other includes general support Other includes related expend	travel, contractor support, legal support, Non-FMS Procurements, activities.	ANZAC and AWD Ship Modific hip Modifications (\$8.2m), Fa t (\$2.0m), Technical Services	cility (\$1.6m),

2.2A In-yea	ar Budge	et Estimate Variand	ce		
Estimate PBS \$m		Estimate PAES \$m	Estimate Final Plan \$m		Explanation of Material Movements
	230.0	183.9		141.0	PBS to PAES: Variation is primarily due to reprogramming, slippage of FMS billing, slippage of integration activities, and foreign exchange gain. This has been partially offset by increased requirements for facilities, sonobuoys and other project related costs. PAES to Final Plan: Variation is primarily due to the reprogramming of FMS billing, slippage of integration activities, reduction in facilities remediation due to funding covered by Regional Facilities budget and reduction in other project related activities.
Variance \$	m	(46.1)		(42.9)	Total Variance (\$m): (89.0)
Variance %	6	(20.0)		(23.3)	Total Variance (%): (38.7)

2.2B In-year Budget/Expenditure Variance

Estimate	Actual	Variance	Variance Factor	Explanation
Final Plan \$m	\$m	\$m		
			Australian Industry	The variance is primarily caused by delays
		(11.5)	Foreign Industry	in disbursements and delivery against the
			Early Processes	MK54 Torpedo FMS case. The Project has
		(5.8)	Defence Processes	also experienced delays in invoicing for
			Foreign Government	Facilities, minor Project related expenditure
			Negotiations/Payments	and ANZAC & AWD ship
			Cost Saving	integrations. This has been partially offset
			Effort in Support of Operations	by the increased expenditure on the MH-
			Additional Government	60R FMS Case and FOREX gains.
			Approvals	
141.0	123.7	(17.3)	Total Variance	
		(12.3)	% Variance	

2.3 Details of Project Major Contracts

	Signature	Pr	ice at			
Contractor	Date	Signature \$m	30 Jun 17 \$m	Type (Price Basis)	Form of Contract	Notes
US Government (AT-P- SCF)			Variable	FMS	1, 3	
US Government (AT-P- AHV)	Aug 11	168.1	209.1	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	14.3	Variable	FMS	1, 3
Notes						
1 The scope of this co						
2 Increased quantity of				- 00 lune 0017 and a		
3 Contract value as a exchange rates, and				to 30 June 2017 and re	maining commitment	at current
exchange rates, and		es as at	tion (where application	able).		
Contractor	Signature	30 Jun 17		Scope		Notes
US Government (AT-P- SCF)	24	24	MH-60R, synthe and support syst	tic training devices, and ems	d associated mission	
US Government (AT-P- AHV)	Classified	Classified	Mk 54 Torpedoe	S		
US Government (AT-P- ZBZ)	Classified	Classified	AGM-114N Hellf	ire Air to Surface Missile	S	
US Government (AT-P- GTC)	N/A	N/A	RAN MH-60R D Florida support	etachment – Naval Air	Station Jacksonville,	
Major equipment received	d and quantities f	to 30 Jun 17				
A quantity of Mk 54 Torpe	edos delivered in	August 2014				
A quantity of Hellfire Miss	iles delivered in	August 2014				
'BRomeo' Seahawk Train	ing Device delive	ered in October	2014			
Tactical Operational Fligh	t Trainer 1 delive	ered in February	2015			
Aircraft 1 through 24 we	ere delivered be	tween Decemb	er 2013 and Augu	ist 2016		
Rear Crew Trainer deliv	ered in August	2016				
Tactical Operational Flig	ght Trainer 2 de	livered in Octo	ber 2016			
Helicopter Support Faci	lity (HMAS Stirl	<i>ling</i>) was accep	ted in December	2016		

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Section 3 – Schedule Performance

3.1 Design Review Progress

Rev	iew	Major System / Platform Variant	Original Planned	Current Planned	Achieved /Forecast	Variance (Months)	Notes
Sys	tem	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
Prel	iminary	MH-60R Helicopter	N/A	N/A	N/A	N/A	1
Des	ign	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
Criti	cal Design	MH-60R Helicopter	N/A	N/A	N/A	N/A	1
		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
Note	es						
1	MH-60R heli	copter system requirements and design i	reviews were r	not required as	s it a MOTS heli	copter procured	through FMS.
2	System Option endorsed SC for Phase 2	ssion System Options were split into tw ons were agreed by the PO, USN, Siko DWs in accordance with Technical Airwor was released as part of USN request fo October 2014.	orsky and Lock thiness Regula	theed Martin. ations. Dates a	Director Generation are reflective of	al Technical Ain Phase 1 design	worthiness has reviews. SOW
3	based on a	quires modification to enable the MH-60 classic Seahawk aircraft. The modifica delivery of each AWD. With the reorgani	ation works re	quired to inte	grate the MH-6	50R aircraft will	be conducted

Test and Evaluation	Major System / Platform Variant	Original Planned	Current Planned	Achieved /Forecast	Variance (Months)	Notes
System Integration	ADF Mission System Options – Phase 1	Aug 15	Aug 15	Aug 15	0	1
	ADF Mission System Options – Phase 2	Sep 18	Jun 19	Jun 19	9	1
	Air Warfare Destroyer	TBA	TBA	TBA	TBA	
Acceptance	ADF Mission System Options – Phase 1	Aug 16	Aug 16	Sep 16	1	1
	ADF Mission System Options – Phase 2	Sep 18	Dec 18	Dec 18	3	1
	Acceptance of first MH-60R	Jun 14	Dec 13	Dec 13	(6)	
	Acceptance of final MH-60R	Sep 18	Aug 16	Aug 16	(25)	
	Air Warfare Destroyer	TBA	TBA	TBA	TBA	
Notes						
1	The ADF Mission System Options w Options was agreed by the PO, USN USN request for tender 26 Februa October 2014. Schedule delays ha having limited control over the de being experienced.	I, Sikorsky and I ry 2014, and co ve been experi	ockheed Mart ontract signatu enced with P	in. SOW for Ph ure with Lockhe hase 2, due in	ase 2 was relea eed Martin was part to the Co	sed as part of achieved in mmonwealth

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Item					Original Planned		ieved recast	Variance (Months)	Notes
In-Servi	ice Date (ISD)				Jun 14	Ja	n 14	(5)	1
Initial M	lateriel Release (IMR)				Jun 15	Ma	ar 15	(3)	2
Initial Operational Capability (IOC)				Aug 15	Se	ep 15	1	3	
Materiel Release 2 (MR2)				Dec 16	De	ec 16	0	4	
Materiel	I Release 3 (MR3)				Jun 19	Ju	n 19	0	
Materiel	I Release 4 (MR4)				Dec 20	De	ec 20	0	
Final Ma	ateriel Release (FMR)				Dec 23	De	ec 23	0	
Final Op	perational Capability (FOC)				Dec 23	De	ec 23	0	
Notes									
1	Revised aircraft delivery	schedule.							
2	The project declared IM	R in March 20	015 three	e months a	head of sch	nedule and	the Capa	bility Manager sigr	ned-off IMR i
2	July 2015.		010, 1100				-		
3		declared IO	C on 25 S	September					
	July 2015. The Capability Manager 60R IOC to Anzac Class	declared IOC ship aviatior	C on 25 S n upgrade	September es, which re	esulted in e				
3	July 2015. The Capability Manager 60R IOC to Anzac Class delay.	declared IOC ship aviation	C on 25 S n upgrade mber 2010	September es, which re 6 on scheo	esulted in e	xtra technio			
3	July 2015. The Capability Manager 60R IOC to Anzac Class delay. The project achieved N	declared IOC ship aviation	C on 25 S n upgrade mber 2010	September es, which re 6 on scheo	esulted in e dule.	xtra technio			
3	July 2015. The Capability Manager 60R IOC to Anzac Class delay.	declared IOC ship aviation	C on 25 S n upgrade mber 2010	September es, which re 6 on scheo	esulted in e dule.	xtra technio		sments that resulted	
3	July 2015. The Capability Manager 60R IOC to Anzac Class delay. The project achieved N Schedule Plan at	declared IOC ship aviation	C on 25 S n upgrade mber 2010	September es, which re 6 on scheo	esulted in e dule.	xtra technio		ments that resulted	
3	July 2015. The Capability Manager 60R IOC to Anzac Class delay. The project achieved N Schedule Plan at Government Approval Schedule Plan at 30	declared IOC ship aviation IR2 in Decen	C on 25 S n upgrade mber 2010	September s, which re 6 on schee e Status at	esulted in e: dule. t 30 June 2	017		Approval INR IOC FMR	

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

1. The Chart. Tercentage Dreakdown of Materiel Capability De	invery r enormance
	<u>Green:</u> The project is currently meeting capability requirements as expressed in the Materiel Acquisition Agreement and supporting suite of Capability Definition Documentation and in accordance with the requirements of the relevant Technical Regulatory Authorities.
	Amber:
	N/A
	Red:
	N/A
100%	
Note	
This Pie Chart represents Defence's expected capability delivery	. Capability assessments and forecast dates are excluded from the
acana of the review	

scope of the review

Project Data Summary Sheets

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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				
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 d	uring 2016-17)			
Description	Remedial Action			
N/A	N/A			
5.2 Major Drajast Jacusa				

5.2 Major Project issues Description Remedial Action			
N/A	N/A		

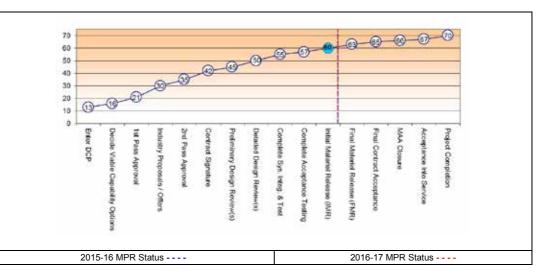
Note

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	 Schedule: The MH-60R production line is mature. The Project negotiated early delivery dates for ADF MH-60R. 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. 							



Section 7 – 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 2016-17

Position	Name
Division Head	MAJGEN Andrew Mathewson AM
Branch Head	CDRE Scott Lockey CSC RAN
Project Director	CAPT Peter Ashworth RAN (to Nov 16) CAPT Malcolm Wright RANR (Nov 16 current)
Project Manager	CMDR Michael Rainey RAN