Project Data Summary Sheet¹²⁴

Project Number	AIR 9000 Phase 2, 4 and 6
Project Name	MULTI-ROLE HELICOPTER
First Year Reported in the	2008-09
MPR	
Capability Type	Replacement
Acquisition Type	Australianised MOTS
Capability Manager	Chief of Navy and Chief of Army
Government 1st Pass	Apr 06 (Phases 4 and 6)
Approval	
Government 2nd Pass	Aug 04 (Phase 2), Apr 06 (Phases
Approval	4 and 6)
Budget at 2 nd Pass	\$3,522.8
Approval	
Total Approved Budget	\$3,771.1m
(Current)	
2017-18 Budget	\$108.4m
Project Stage	Initial Materiel Release
Complexity	ACAT I



Section 1 – Project Summary

1.1 Project Description

The Multi-Role Helicopter (MRH) Program is a key component of the Australian Defence Force (ADF) Helicopter Strategic Master Plan that seeks to rationalise the number of helicopter types in ADF service. The MRH Program consists of three phases of AIR 9000. Phase 2 (12 helicopters) is the acquisition of an additional Squadron of troop lift aircraft for the Australian Army, Phase 4 (28 helicopters) will replace Army's Black Hawk helicopters in the Air Mobile and Special Operations roles, and Phase 6 (6 helicopters) will replace Royal Australian Navy (RAN) Sea King helicopters in the Maritime Support Helicopter role. All three phases are grouped under the AIR 9000 MRH Program.

1.2 Current Status

On 28 November 2011, the Minister for Defence announced this project as a Project of Concern.

Cost Performance

In-year

The project has spent **\$101.7m** against a budget of **\$108.4m** to June 2018. The **\$6.7m** underspend to June 2018 is primarily due to net adjustments to payment phasings across the Prime Acquisition and delays in finalising Contract Change Proposals. This is offset against a foreign currency gain.

Project Financial Assurance Statement

As at 30 June 2018, project AIR 9000 Phase 2, 4 & 6 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 applied contingency in the financial year primarily for the treatment of various supportability and performance risks such as a replacement Mission Management System (including radios and ancillary requirements), Cargo Hook, Fast Roping, Rappelling and Extraction System, Skilled Workforce, Gun Mount System, Aero-Medical Evacuation and Electronic Warfare Self Protection System characterisation. The application of Contingency is directly in support to the transition of the MRH90 into 6 Aviation Regiment.

Schedule Performance

As a result of the Deed 2 negotiations with the contractor, the final delivery of aircraft was rescheduled to July 2017; this, and ongoing technical deficiencies, have resulted in delays to the Final Materiel Release (FMR) and Final Operational Capability (FOC) milestones. However, a number of capability milestones have been declared, including Army Initial Operational Capability (IOC) in December 2014, Navy IOC in February 2015, first Operational Capability Land (OCL1) in September 2015, second and third Operational Capability Amphibious (OCA2/3) in December 2015, the second Operational Capability Land (OCL2) in March 2016 and the third Operational Capability Land (OCL3) in February 2018. The FMR and FOC dates are currently under review and are expected to be clarified in Quarter 4 2018 to support approval of a revised Materiel Acquisition Agreement.

124 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.

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Forty-seven aircraft have been accepted into service with the final aircraft accepted in July 2017. The first thirteen aircraft required an in-service retrofit to bring them up to the full Phase 2, 4 & 6 capability baseline with the final retrofit completed in March 2016.

Remediation to rectify concerns regarding configuration management issues of production aircraft slowed the acceptance of production aircraft in 2015, this in turn slowed the rate of capability growth.

The Chief of Army delayed the introduction of MRH90 into 6th Aviation Regiment by 3 years, because of reliability and design shortfalls and subsequently extended the Black Hawk fleet to 2022 to mitigate the risk to capability. The delayed introduction to 6th Aviation Regiment (6Avn Regt) resulted in the growth in total MRH90 flying hours temporarily stabilised below the planned mature rate.

In September 2017, Chief of Army's Senior Advisory Committee (CASAC) endorsed and CA agreed to continue the transition of MRH90 into 6Avn Regt from January 2019.

Both Full Flight Mission Simulators have been accepted (the first in August 2013 and the second in October 2014).

Materiel Capability Delivery Performance

Following achievement of In-Service Date (ISD) with agreed partial achievement of the contracted MRH capabilities, there has been significant work by both Industry and the Commonwealth to define and implement a series of capability block enhancements to bring the MRH90 to contracted standards. This included a retrofit program to progressively bring all aircraft up to the contracted standard. Although FMR is being reviewed, it is now forecast to be achieved in 2020 as the technical and supportability issues are resolved to meet the final operational capability.

MRH achieved 96% of its planned 2017/2018 Financial Year ROE.

Note

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

1.3 Project Context

Background

The Additional Troop Lift project was first foreshadowed in the Defence White Paper 2000.

The MRH Program consists of Phases 2, 4 & 6. Phase 2 was approved initially, providing 12 additional Troop Lift helicopters for Army. Phases 4 & 6 were approved subsequently with Phase 4 which provided 28 helicopters as the replacement of the Australian Army's fleet of 34 S-70A-9 Black Hawk helicopters, again for troop lift capability, and Phase 6 provided 6 helicopters as the replacement of the RAN's fleet of six Sea King helicopters, providing maritime support capability for Navy. The delivery of a 47th MRH90 was negotiated as part of Deed 2. This enables the use of one airframe as a Ground Training Device without impacting the operational fleet.

In total, the AIR 9000 MRH Program will acquire 47 MRH90 aircraft and support systems. Support capabilities, such as Electronic Warfare Self Protection Support System, MRH Software Support Centre, MRH Instrumentation System and a Ground Mission Management System, will be acquired along with training systems and in-service support.

The Phase 2 Acquisition Contract was signed with Airbus Australia Pacific (Airbus AP) in June 2005 with the subsequent Sustainment and Program Agreement contracts signed in July 2005.

In November 2005 the Defence Capability and Investment Committee agreed that the way forward was to seek a combined first and second pass approval for both Phases 4 and 6 as part of a single approval process.

Cabinet endorsement was gained in April 2006 in a combined first and second pass process for Phase 4 and Phase 6. The agreed method of procurement, a two stage Contract Change Proposal (CCP), resulted in the execution of options contained in the Program Agreement for the procurement of additional aircraft approved under Phases 4 and 6. Initial CCPs for the Acquisition, Sustainment and Program Agreement Contracts were signed in June 2006.

The three AIR 9000 Phase 2, 4 & 6 contracts (Program Agreement Contract, Acquisition Contract and Sustainment Contract) incorporate the above CCPs. On acceptance of two MRH90, appropriate training, maintenance and supply support, an In-Service Date of December 2007 was achieved with aircraft operating under a Special Flight Permit granted by the Chief of Air Force. This triggered the Sustainment Contract to come into effect and all three contracts are now currently active.

The Commonwealth suspended acceptance of aircraft from Airbus AP in November 2010; deliveries recommenced in November 2011 after negotiations of a remediation plan (Deed of Agreement and CCPs) to address a number of engineering and reliability issues. Concurrent with the recommencement of aircraft acceptance in November 2011, the Minister for Defence announced that the project would be listed as a Project of Concern citing schedule, aircraft technical deficiencies and Airbus AP's performance.

The Commonwealth has conducted negotiations with the prime contractor to review and settle commercial, technical and schedule issues resulting in a variation to the original contract signed on 9 May 2013, which has been termed 'Deed 2'. Deed 2, which came into effect on 1 July 2013 re-baselined the delivery schedule and addressed commercial and technical issues.

Uniqueness

The MRH90 aircraft is based upon the German Army variant of the NH90 Troop Transport Helicopter. The MRH90 design uses well established aerospace technologies, but will introduce new technologies into Army and Navy, primarily in the areas of composite structure, helmet mounted sight and display and fly-by-wire flight control systems.

The MRH Program is providing an MRH90 capability to two main users - Army and Navy. The capability delivery complexity this introduces has been mitigated through an agreement between Chief of Army and Chief of Navy. This provides the project with a single interface for introduction into service issues.

The MRH Program Office Design Acceptance Strategy is dependent upon the French Military Airworthiness Authority's (Direction Générale de l'Armament (DGA)) prior acceptance of the NH90 variants and certification recommendation for the MRH90. The DGA and other National Qualification Organisations' prior acceptance of European NH90s provide confidence for the ADF to leverage off common certification evidence for the MRH90.

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Major Risks and Issues

Aircraft system lack of maturity has affected the certification schedule of the MRH90 and subsequently the declaration of capability milestones.

The project is managing issues affecting Final Materiel Release including the Mission Management System, Cargo Hook, Fast Roping, Rappelling and Extraction System, Ground Mission Management System, Full Flight Missions System configuration, Gun Mount System, and Aero-Medical Evacuation.

The remediation of these deficiencies and issues through replacement or re-design, will draw upon significant engineering, logistic and commercial resources and will therefore form the critical path toward achieving the Final Materiel Release and enable the introduction of the MRH90 into 6Avn Regt.

There is a risk that the project may not be able to retain sufficient levels of experienced and skilled manpower to achieve the required rate of Acquisition deliverables. In addition, there is also a risk that Industry may not be able to retain sufficient workforce, prior to Acquisition Project closure, to sustain the timely delivery of the remaining capability elements.

Other Current Sub-Projects

AIR 9000 Phase 7 Helicopter Aircrew Training System (HATS): HATS will be an important link in the training continuum for inductees to the MRH 90 training system.

AIR 9000 Phase 8 Future Naval Aviation Combat System: The acquisition of 24 helicopters to 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.

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			
Apr 04	Original Approved	3.3		1
Aug 04	Government Second Pass Approval (Phase 2)	953.9		
Jun 06	Real Variation – Scope (Second Pass Phase 4 and 6)	2,565.6		2
	Total at Second Pass Approval		3,522.8	
Oct 06	Real Variation – Transfer	(219.0)		3
Oct 08	Real Variation – Transfer	(20.0)		4
Oct 08	Real Variation – Scope	31.5		5
Sep 17	Real Variation – Budgetary Adjustment	(87.4)		6
			(294.9)	
Jul 10	Price Indexation		679.8	7
Jun 18	Exchange Variation		(136.6)	
Jun 18	Total Budget		3,771.1	
	Project Expenditure			
Prior to Jul 17	Contract expenditure – Airbus AP	(2,604.8)		
	Contract expenditure – CAE Australia	(172.0)		
	Other Contract Payments / Internal Expenses	(232.7)		8
		_	(3,009.5)	
FY to Jun 18	Contract expenditure – Airbus AP	(83.3)		
	Contract Expenditure – Agusta Westland Australia	(3.9)		
	Other Contract Payments / Internal Expenses	(14.5)		9
			(101.7)	
Jun 18	Total Expenditure		(3,111.2)	
Jun 18	Remaining Budget		659.9	
Notes	· · · · · · · · · · · · · · · · · · ·			
1 This project's	s original budget amount is that prior to achieving Second Pass G	overnment Approva	Ι.	
2 Incorporation Helicopter).	n of AIR 9000 Phase 4 (Black Hawk Upgrade/Replacement)	and AIR 9000 Pha	ase 6 (Maritim	e Support
3 The funding	related to facilities elements of the project was managed by Defer	nce Estate and Infra	structure Group	(DE&IG).
4 Transfer to D	E&IG for Facilities Infrastructure.			

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5	Real Cost Increase funding for Full Flight Mission Simulator.
6	Real Variation for Budget Adjustment (\$87.4m). This was offset and corrected by CFO by a subsequent Exchange Adjustment in the BORIS Bi-Annual update.
7	Up until July 2010, indexation was applied to project budgets on a periodic basis. The cumulative impact of this approach was \$556.1m. In addition to this amount, the impact on the project budget as a result of out-turning was a further \$123.7m having been applied to the remaining life of the project.
8	Other expenditure: \$232.7m for operating expenditure, contractors, consultants, and other capital expenditure not attributable to the aforementioned contracts.
9	Other expenditure: \$14.5m which includes \$1.0m for operating expenditure, \$5.6m for contractors and consultants, and \$7.9m for other capital expenditure not attributable to the aforementioned contracts.

2 2A In Rud

Estimate PBS \$m	Estimate PAES \$m	Estimate Final Plan \$m	Explanation of Material Movements
119.2	102.4	108.4	The variance between PBS and PAES estimates reflects the latest schedule of contract deliverables and a revised allocation of funding to address key risks associated with the stand-up of 6 Aviation Regiment, the remediation of technical risks, role equipment and supportability issues. The variance between PAES and Final Plan estimates primarily reflects reprogramming of prime contract milestone and foreign exchange funding increase.
Variance \$m	(16.8)	6.0	Total Variance (\$m): (10.8)
Variance %	(14.1)	5.9	Total Variance (%): (9.1)

2.2B In-year Budg	jet/Expendit	ure variance		
Estimate	Actual	Variance	Variance Factor	Explanation
Final Plan \$m	\$m	\$m		
		0.2	Australian Industry	The \$6.7m underspend reflects net
			Foreign Industry	adjustments to payment phasings
			Early Processes	across the Prime Acquisition Contract,
		(6.0)	Defence Processes	and against contracts for other minor
			Foreign Government	procurement requirements and
			Negotiations/Payments	foreign exchange funding
			Cost Saving	adjustments.
		(0.8)	Effort in Support of Operations	
			Additional Government Approvals]
108.4	101.7	(6.7)	Total Variance	
		(6.2)	% Variance	

Contrac	tor Si	gnature Dat	e	Price at	Type (Price Basis)	Form of Contract	Notes						
			Signature \$m	30 Jun 18 \$m									
Airbus A	AE Dec 07 180.5 176.8 VARIABLE ASDI		ASDEFCON (Strategic)	1, 2, 3, 4									
CAE Australia			176.8	VARIABLE	ASDEFCON (Complex)	4, 5							
Agusta Westlan Australia		Apr 18	16.3	16.7	VARIABLE	Deed	4, 6						
Notes				•									
2	Instrumented System and 23 Ground Mission Management System (GMMS) (4 Fixed GMMS, 7 Deployable GMMS, 7 Reduced, 9 Light and 2 interim GMMS). Contract Base date is January 2004. The MRH Instrumented System includes an airborne instrumentation pallet, some ground based instrumentation and three aircraft (from the total fleet of 47) that have provisions to have the instrumentation pallet installed. The increase from the original contract value is predominantly due to the increase in aircraft ordered and associated						on and						
	key CCPs	processed	for a Fast Roping, Ra	ope changes as described ppelling and Extraction Sy	stem, and Gun Moun	t System							
4				on actual expenditure to 3 or indexation (where appl		aining commitment at	curren						
5				iations with the Contracto	or, to review and sett	e commercial and te	The Commonwealth has conducted negotiations with the Contractor, to review and settle commercial and technical issues in December 2015.						
6			entered into contrac and overhaul facility	ct with Agusta Westland	I Australia for the es	ablishment of a heli	copte						
6 Contract	transmiss	ion repair			I Australia for the es	ablishment of a heli	copte						
-	transmiss or Sig	ion repair	and overhaul facility ties as at 30 Jun 18		Australia for the est		copte						

CAE	2	2	Full Flight and Mission Simulator					
Australia			-					
Major equ	Major equipment received and quantities to 30 Jun 18							
Forty-sev Commony		ve been accepted to	date. Both Full Flight Mission Simulators h	ave been accepted by the				
Notes	Notes							
1	The delivery of a 47	th MRH90 was neg	otiated as part of Deed 2. This enables the	use of one airframe as a Ground				
	Training Device with	nout impacting the c	perational fleet.					

Section 3 – Schedule Performance

3.1 Desig	gn Review F	Progress	Original				
Review		Major System / Platform Variant		Current Planned	Achieved /Forecast	Variance (Months)	Notes
System Requirements		MRH aircraft - Phase 2	Aug 05	Oct 05	Sep 05	1	1
Requirements		MRH aircraft - Phase 4/6	Apr 07	Apr 07	May 07	1	1
		MRH Software Support Centre	N/A	Mar 07	Apr 07	1	
		Electronic Warfare Self Protection Support System	N/A	N/A	Nov 05	N/A	
		Ground based Mission planning and Management System	Oct 05	Oct 05	Feb 07	16	2
		MRH Instrumented System	N/A	Jun 07	Jul 07	1	
		Full Flight and Mission Simulators	May 08	Nov 08	Mar 09	9	3
System	Design	Full Flight and Mission Simulators	Oct 08	Mar 09	Jun 09	8	3
Prelimir	nary	MRH aircraft - Phase 2	Jan 06	Jan 06	Apr 06	3	
Design		MRH aircraft - Phase 4/6	N/A	N/A	Jun 08	N/A	
		MRH Software Support Centre	N/A	Jun 07	Jun 07	0	
		Electronic Warfare Self Protection Support System	Mar 06	Mar 06	May 06	2	
		Ground based Mission planning and Management System	Jul 06	Apr 07	Jun 07	11	2
		MRH Instrumented System	N/A	Jun 07	Jul 07	1	
		Full Flight and Mission Simulators	Feb 09	Sep 09	Oct 09	8	3
Critical	Design	MRH aircraft - Phase 2	May 06	May 06	Jun 06	1	
		MRH aircraft - Phase 4/6	Aug 08	N/A	Oct 08	2	
		MRH Software Support Centre	N/A	Oct 07	Sep 07	(1)	
		Electronic Warfare Self Protection Support System	Sep 06	Sep 06	Oct 06	1	
		Ground based Mission planning and Management System	Nov 06	Nov 07	Jul 08	20	2
		MRH Instrumented System	N/A	Jun 08	Jun 08	0	
		Full Flight and Mission Simulators	Aug 09	Feb 10	Apr 10	6	3
Notes				-			
1		the Systems Engineering process have resu 90 variant being unique in some ways.	ulted from the m	iore developm	ental nature of	the aircraft sys	stem, with
2	Ground M	lission Management System software delay	s are directly at	tributable to a	ircraft schedule	e delivery slip.	
3	suitable S	t Mission Simulators design review delays s system and Subsystem Specification. This w act with the aircraft manufacturer.					

Test a Evalua		Major System / Platform Variant	Original Planned	Current Planned	Achieved /Forecast	Variance (Months)	Notes
Syster		MRH aircraft - Phase 2	Jul 06	Nov 06	Dec 06	5	
Integra	ation	MRH aircraft - Phase 4/6	N/A	N/A	N/A	N/A	1
		MRH Software Support Centre	N/A	Oct 08	Nov 08	1	
		Electronic Warfare Self Protection Support System	N/A	N/A	Nov 07	N/A	
		Ground based Mission planning and Management System	N/A	N/A	N/A	N/A	2
Acceptance		MRH Instrumented System	Nov 08	May 09	Dec 09	13	3
		Full Flight and Mission Simulators	Jun 11	Sept 11	Sep 11	4	4
Accep	tance	Type Acceptance Review Special Flight Permit 1	Oct 07	N/A	Dec 07	2	5
		Australian Military Type Certificate	Dec 08	Dec 10	Apr 13	52	6
		Full Flight and Mission Simulator #1	Jul 12	Aug 13	Aug 13	13	7
		Full Flight and Mission Simulator #2	Jan 13	Oct 14	Oct 14	21	7
		Ground based Mission planning and Management System Lot 1	Feb 09	Sep 09	Dec 09	10	8
		Ground Mission planning and Management System Lot 2	Feb 09	Dec 09	Apr 10	14	8
		Ground Mission planning and Management System Lot 3	Sep10	Sep10	Mar 13	30	8
		MRH Software Support Centre	Feb 09	Feb 09	Dec 08	(2)	
		Electronic Warfare Self Protection Support System		Dec 07	Dec 07	0	
		MRH Instrumented System	Mar 10	Jun 10	Sep 11	18	9
Aircrat		MRH aircraft #01 (First aircraft)	Dec 07	N/A	Dec 07	0	
Accep	tance	MRH aircraft #05 (First Australian built aircraft)	Dec 08	N/A	Dec 08	0	
		MRH aircraft #46	Jul 14	Jun 17	Jun 17	35	10
		MRH aircraft #47 (Final Aircraft)	Jul 17	Jul 17	Jul 17	0	
Notes	1						
1	Phases 4/ 46.	6 were rolled into the MRH Program from air	craft 13 onward	ds, which incre	eased the num	per of aircraft	from 12 t
2	contract s	otance and test-readiness of the Ground Mis ignature. The lots compose of GMMS deliv The acceptance of GMMS lots are listed in th	erables that ha	ave been aligi	ned to aircraft		
3	until Nove	onth delay to closure of Test Readiness Revie mber 2009. This delay was mitigated by the test activity in October 2009.					
4		through completion of Test Readiness Review	w for Contracto	or In-Plant Tes	t and Evaluatio	n in Septemb	er 2011.
5	The first A in Decemb	irworthiness Board (for a Special Flight Perm per 2007. There have been a number of SFP recent SFP was granted in December 2012 a	it (SFP)) was c extensions to	onducted in N allow flight tria	ovember 2007	and a SFP wa	is grante
6	Achieveme insufficient fleet are su	ent of the Australian Military Type Certificate t levels of the Rate of Effort. Rate of Effort w ufficient to cope with current numbers of aircra pe Certificate and Service Release was achi	proved problem as required to aft and are grow	natic due to teo validate that ir ving in maturity	n-service suppo	ort arrangeme	nts for th
7		acceptance of Full Flight Mission Simulators i facilities and an underestimation of the time				incurred due	to the lat
8	Lot 1, 2 ar	nd 3 have been altered to accommodate the	ariation in airc	raft delivery d	ate and configu	iration.	
9		instrumented system incurred delays due to nces. These non-conformances were rectified			ssues that resu	ulted in contra	ctual nor
10	Commonw number of pending re to accept a of the carg	20 program stopped accepting aircraft in Nov vealth recommenced accepting aircraft in N f engineering and contractual issues; howev ssolution of another technical concern related a further four aircraft based on Airbus AP's a jo hook issue. Scheduled aircraft acceptance nal aircraft (#47) accepted in July 2017.	ovember 2011 er acceptance to the aircraft's greement to th	after negotia of aircraft wa cargo hook. Ir e commercial	iting a remedia is again suspe n May 2012 the terms associa	ation plan to a inded in Febru Commonwea ted with the re	address Jary 201 Ith agree ectificatio

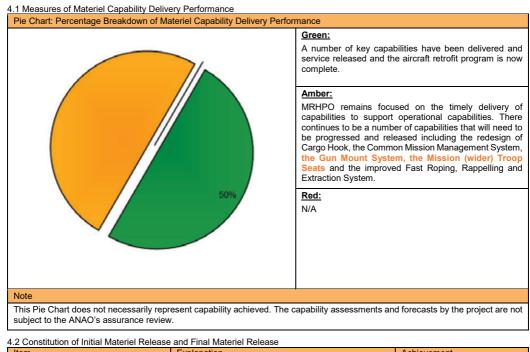
Item				Original Planned	Achieved /Forecast	Variance (Months)	Notes
nitial	Materiel Release (IMR)		Army/Navy	Jun 10	May 13	35	1
nitial	Operational Capability (IC)C)	Navy	Jul 10	Feb 15	55	2
			Army	Apr 11	Dec 14	44	3
Final Materiel Release (FMR) Army/N				Oct 14	Jun 20	68	4,5
inal (Operational Capability (FC	DC)	Navy	Dec 12	-	-	5,
			Army	Jul 14	Dec 21	89	4,5
Votes	The MRH90 program st						
2 3 4	in June 2012 with the final aircraft (#47) accepted in July 17. IMR was declared on 13 May 2013, based on 6 Product Baseline 003 aircraft. Affected by delays to IMR. (Refer to Note 1 above) Affected by delays to IMR. (Refer to Note 1 above) Dates directly impacted by delay to IMR. (Refer to Note 1 above). The remediation of technical deficiencies and issues through replacement or re-design will draw upon significant engineering, logistic and commercial resources and will therefore form the critical path toward achieving FMR. The FMR and FOC dates are currently under review and are expected to be clarified in Quarter 4 2018 with the approval of a revised Materiel Acquisition Agreement as the technical						
			lved to meet the F	00.			
5	FOC is now only foreca Special Operations 2 (date. The last cap vember 2021, whi	ability subset is to	trigger FOC	y as Operation	al Capabili
5			date. The last cap vember 2021, whi	ability subset is to ch is expected to	trigger FOC		al Capabili pproval
IMI	Special Operations 2 (Schedule Plan at Government		date. The last cap vember 2021, whi	ability subset is to ch is expected to	trigger FOC		pproval /IR DC

Note

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

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Section 4 – Materiel Capability Delivery Performance



4.2 Constitution of Initial Materiel Release and Final Materiel Release				
Item	Explanation	Achievement		
Initial Materiel Release (IMR)	 Six Product Baseline 003 aircraft with associated role equipment to support Initial Operational Capability milestones; Issue of Australian Military Type Certificate and Service Release; Completion of all MRH90 facilities at Townsville, Oakey and Nowra; Establishment of mature planned contractor support to maintenance and logistics; and Provision and certification of Mission Management systems necessary for Initial Operational Capability milestones. Initial Material Release was achieved in May 2013. 	Achieved		
Final Materiel Release (FMR)	 Forty-seven aircraft configured to the contractual baseline including configuration amendments specified in Deeds 1 and 2 (one aircraft to be used as a Maintenance Training Device); Role equipment delivered to support aircraft; A mature sustainment organisation capable of discharging all in-service responsibilities; including logistic and training requirements; Mature training system with all training devices accepted, supported by an effective, functioning training organisation; and All facilities and support equipment, required to support the capabilities accepted. The project is focused on the timely delivery of capability to meet future operational milestones. This includes the delivery of crucial products such as the replacement Cargo Hook, the Fast Roping and Rappelling Device and a Common Ground Mission Management System. 	Not yet achieved		

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Identified Risks (risk identified by standard project risk managem	ent processes)
Description	Remedial Action
There is a risk that the MRH Program may not be able to retain sufficient levels of experienced and skilled manpower to achieve the required rate of Acquisition deliverables leading to an impact on schedule and capability.	 Early identification of staff transition and turnover. Detailed succession planning. Early engagement with Army and Royal Australian Air Force posting Directorates and CASG, to identify solutions. Identify areas where contracted workforce can supplement where applicable.
There is a risk that Industry may not be able to retain sufficient workforce, prior to Acquisition Project closure, to sustain the timely delivery of the remaining capability elements.	 Apply provisions of the contract to incentivise delivery to the schedule. Actively engage Industry and scrutinise performance against product delivery through the following forums: a. Critical Item Review b. Project Executive Meetings c. Project Management Review d. Weapons Systems Working Group e. Project Management Stakeholder Group
Emergent Risks (risk not previously identified but has emerged d	uring 2017-18)
Description	Remedial Action
There is a chance that the MRH90 capability transition into 6Avn Regt will be affected by delays in delivery of key capability and role equipment leading to a delay of MRH90 transition and extension of Black Hawk for 6Avn Regt operations.	 Form 6Avn Integrated Project Team. Monitor delivery of key capabilities. Mitigate delays including through Industry collaboration. Implement solution for each deliverable.
5.2 Major Project Issues	
Description	Remedial Action
The Full Flight Mission Simulator configuration alignment with the MRH90 aircraft has been affected by the length of time required to upgrade to Sustainment Software Build 1.1.	 Evaluate options for consolidating Full Flight Mission Simulator technologies to a single manufacturer. Establish an efficient process of obtaining aircraft documentation and associated software packages. Integrate engineering change proposals between MRH90 aircraft and the Full Flight Mission Simulator.
The Electronic Warfare Self Protection system is not performing to specification during specific aircraft manoeuvres.	 Conduct a technical assessment of the issues identified and provide recommendations for remediation. Commonwealth to assess the validity of the recommendations with system specialists. Verification and validation of the remediation activities by Industry. Implement solution to meet capability requirements.
The Fast Roping and Rappelling is not suitable which has affected the achievement of operational capability leading to an impact on schedule and performance.	 Interim Fast Roping and Rappelling Device solution has been design accepted and service release has been achieved. Identify design options for enduring solution. Contract for enduring solution. Implement enduring solution – Fast Roping, Rappelling and Extraction System. This issue has been downgraded as a result of contracting for the enduring solution.
The Enhanced MRH Armament Sub-System (EMAS) is incompatible with an introduced weapon leading to an impact on operational performance and delivery schedule.	Implement interim capability. Identify design options for enduring solution for both Navy and Army. Contract for enduring solution. Implement enduring solution - Taipan Gun Mount System. This issue has been downgraded as a result of contracting for the enduring solution.
The existing Ground Mission Management System (GMMS) is not suitable for integration with the ADF mandated Joint Mission Planning System (JMPS) leading to an impact on MRH90 operational performance.	 Formation of user working group. Develop and agree on options to meet capability requirements. Implement agreed solution.
The initial AME solution is not suitable for high care or multiple	1. Formation of Aero-Medical Evacuation capability working

	 Develop and agree on the functional requirements specification with Commonwealth stakeholders and Industry. Implement agreed solution.
The current Cargo Hook design is incompatible with Australian Defence Equipment which will delay the final solution delivery.	 Develop Statement of Requirement for new Cargo Hook. Industry to provide proposal for new Cargo Hook. Develop and agree on options enduring solution to meet capability requirements. Implement agreed solution.
The achievement of the FMR has been delayed by the late delivery of supplies according to the contracted schedule leading to an impact on cost, schedule and performance	 Accept incremental improvements where appropriate Identify design options for enduring solution for both Navy and Army as required Leverage NATO Helicopters 90 community solutions where appropriate Re-baseline FMR are date via Out of Session PMSG brief to allow update of MAA. Contract for enduring solution. Implement enduring solutions to achieve FMR

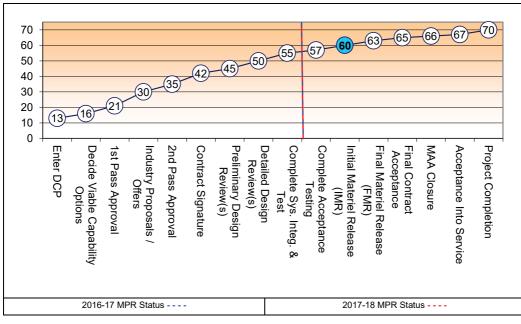
Note

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							
Mat	urity 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	Project Status	7	7	9	9	8	7	9	56
Release	Explanation	 Schedule: The Final Materiel Release and Final Operational Capability dates are currently under review and are expected to be clarified in quarter 4 2018 with the approval of a revised Materiel Acquisition Agreement. Cost: Not all risks have been retired; however the estimate at completion to mitigate remains within contingency guidance. Requirement: The MRH System design and acceptance testing phases are essentially complete, with activities on-going for outstanding elements such as cargo hook and mission troop seat. Additionally, the project office, with Navy and Army, is conducting validation trials to demonstrate that the system meets in-service requirements. Technical Understanding: The knowledge necessary to operate and support the platform is being transferred to the in-service providers. 							
		Tec of e Con and	of elements of the capability.						lissues



Section 7 - Lessons Learned

7.1 Key Lessons Learned

Project Lesson	Categories of Systemic Lessons
Early establishment of the Sustainment organisations. Both Commonwealth and Industry teams need to be set up well in advance of the first of the deliveries. The provision of accepted aircraft to an Operational Squadron has led to a range of lessons in regard to command and control of assets and people, stakeholder management and the relationship with Industry.	Resourcing
The impact of attaining limited Intellectual Property rights has been critical to the ongoing development of the capability and achievement of value for money in further contract negotiations. It has also limited the provision of data for integration with other platforms (such as the Landing Helicopter Dock ships).	Contract Management
The MRH Program was incorrectly viewed as a Military off-the-Shelf (MOTS) acquisition. Lessons associated with intended MOTS procurements include: that it is essential that the maturity of any offered product be clearly assessed and understood; and that elements of a chosen off-the-shelf solution may not meet the user requirement.	Off-the-shelf Equipment
Better arrangements should be put in place to ensure appropriate considerations of contractor performance occur before the Commonwealth enters into similar contracts with the same contractor.	Contract Management

Section 8 - Project Line Management

8.1 Project Line Management in 2017-18

Position	Name
Division Head	MAJGEN Andrew Mathewson (to Nov 17) Mr Shane Fairweather (Nov 17 - current)
Branch Head	BRIG Jeremy King
Project Director	COL Brad Warren
Project Manager	Mr Hilton Hunter