Part 3. Project Data Summary Sheets

Project Data Summary Sheet¹⁴⁹

Project Number	AIR9000 Phase 2, 4 and 6
Project Name	MULTI-ROLE HELICOPTER
First Year Reported in the MPR	2008-09
Capability Type	Replacement
Capability Manager	Chief of Navy and Chief of Army
Government 1st Pass Approval	Apr 06 (Phases 4 and 6)
Government 2nd Pass Approval	Aug 04 (Phase 2), Apr 06 (Phases 4 and 6)
Budget at 2nd Pass Approval	\$3,522.8m
Total Approved Budget (Current)	\$3,770.0m
2020-21 Budget	\$97.3m
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 AIR9000. 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 AIR9000 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 \$103.9m against a budget of \$97.3m to the end of June 2021. The \$6.6m variance to the end of June 2021 was achieved by the Project through proactive engagement with the contractor to identify opportunities to bring forward spend from FY2021/22. The spend was able to be achieved due to net adjustments to payment phasings across the Prime Acquisition Contract offsetting reduced spend against contracts for other procurement requirements. Reduced spend on operating requirements contributed to the remaining variance.

Project Financial Assurance Statement

As at 30 June 2021, project AIR9000 Phase 2, 4 and 6 has reviewed the approved scope and budget for those elements required to be delivered by Defence. Having reviewed the current financial and contractual obligations of Defence, current known risks and estimated future expenditure, Defence considers, as at the reporting date, there is sufficient budget, including contingency remaining for the project to complete against the agreed scope.

Contingency Statement

The project has committed contingency in the financial year primarily for the treatment of various supportability and performance risks such as a replacement Mission Management System (including Aviation Mission System Hardware procurement and Contractor Support Services), Mini Gun and MRH90 Enhanced Cargo Hook System Spares and Support and Test Equipment, Fast Roping, Rappelling and Extracting System Delta Scope and the Ground Logistic Information Management System Service Ordering Agreement. The commitment of Contingency is directly in support of the transition of the MRH90 into 6 Avn Regt.

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. Due to ongoing capability delays the FMR and FOC dates have been updated to March 2022 and June 2022 to support a revised Materiel Acquisition Agreement.

149 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 Review Report by the Auditor-General in Part 3 of this report.

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 and 6 capability baseline with the final retrofit completed in March 2016.

Both Full Flight Mission Simulators have been accepted (the first in August 2013 and the second in October 2014). 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 6 Avn Regt by three 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 6 Avn 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 Chief of Army agreed to continue the transition of MRH90 into 6 Avn Regt which commenced in January 2019 and will conclude with the withdrawal of the Black Hawk helicopters and 6 Avn Regt taking on full Special Operations capability by the end of 2021.

The transition of MRH90 into 6 Avn Regt has commenced and has been supported by the project through the funding of facilities works, procurement of Support and Test Equipment and additional spares.

The Fast Roping, Rappelling and Extracting System has achieved Service Release and is entering service with the operating units.

The Taipan Gun Mount was granted Incorporation Approval during the reporting period by the MRH Configuration Control Board and the first production batches are being delivered to and Accepted by the Project.

The MRH Aircraft Maintenance Trainer that was expected to transition to the Army Aviation System Program Office (AASPO) for project completion is now scheduled for delivery in October 2021 due to shipping delays, prior to the declaration of FMR.

During the past year a number of capabilities have transitioned from the project office to the Sustainment Organisation including; Pyrotechnic/ Heliraft Storage System (PHSS), C17 Transport, Full Flight and Mission Simulator (FFMS), Wet Deck and the Enhanced MRH90 Armament System (EMAS).

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. FMR has been reviewed and is now forecast to be achieved in March 2022 as the technical and supportability issues are resolved to meet the final operational capability. At this time it is expect that FMR will include the transfer of Project funding and contract management responsibilities concerning the completion of the remaining long lead time acquisition activities for Aero Medical Evacuation Equipment (AMEE) and C-17 Tactical Loading to the Army Aviation System Program Office (AASPO).

MRH achieved 60.8% of its planned 2020/21 Financial Year Rate Of Effort (ROE). This represents hours actually flown, compared to planned flying hours. ROE is a Sustainment Contract Key System Health Indicator and this achievement indicates that some Key Performance Indicators are below the required performance bands.

Note

Forecast dates and capability assessments are excluded from the scope of the Auditor-General's Independent Assurance Report.

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 and 6. Phase 2 was approved initially, providing 12 additional Troop Lift helicopters for Army. Phases 4 and 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 six 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 aircraft as a Ground Training Device without impacting the operational fleet.

In total, the AIR9000 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 AIR9000 Phase 2, 4 and 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.

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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 leverace off common certification evidence for the MRH90.

Major Risks and Issues

The current open issues being managed by the project are:

- The achievement of the FMR has been delayed by the late delivery of role equipment including the Taipan Gun Mount, AME-Mature, and the Mission Troop Seat leading to an impact on cost, schedule and performance.
- The initial AME solution is not suitable for high care or multiple extractions which will delay full AME capability until the AME-Mature capability is delivered.
- Spares will need to be procured to support the new role equipment and capabilities being developed for the MRH90.
- The MRH90 capability transition into 6 Avn Regt has been affected by delays in delivery of key capability and role equipment leading to a delay of MRH90 transition and extension of Black Hawk for 6 Avn Regt operations.

Other Current Related Projects/Phases

AIR9000 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.

AIR9000 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.

AIR90 Identification Friend or Foe (IFF): AIR90 will upgrade the MRH90 to the Mode 5 IFF waveform to maintain interoperability with US and NATO secure combat identification systems.

Note

Major risks and issues are excluded from the scope of the Auditor-General's Independent Assurance Report.

Date	Description		\$m
	Project Budget		
Apr 04	Original Approved	3.3	
Aug 04	Government Second Pass Approval (Phase 2)	953.9	
Jun 06	Real Variation - Scope (Second Pass Phase 4 and 6)	2,565.6	
	Total at Second Pass Approval	-	3,522.8
Oct 06	Real Variation - Transfer	(219.0)	
Oct 08, <mark>Nov 18,</mark> Jun20	Real Variation - Transfer	(20.3)	
	Real Variation - Scope	31.5	
Sep 17 Nov 18	Real Variation - Budgetary Adjustment Real Variation - Transfer	(87.4) (0.2)	
		-	(295.2)
Jul 10	Price Indexation		679.8
Jun 21	Exchange Variation	_	(137.4)
	Total Budget		3,770.0

Section 2 – Financial Performance

2.1 Project Budget (out-turned) and Expenditure History

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Notes

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		Project Expenditure			
Prio	r to Jul 20	Contract expenditure - Airbus AP	(2,815.4)		
		Contract expenditure - CAE Australia	(176.6)		
		Contract Expenditure – Leonardo Helicopters	(11.9)		
		Other Contract Payments / Internal Expenses	(353.5)		8
				(3,357.4)	
FY t	o Jun 21	Contract expenditure - Airbus AP	(42.6)		
		Contract Expenditure - NAHEMA	(11.8)		
		Contract Expenditure – Leonardo Helicopters	(1.5)		
		Other Contract Payments / Internal Expenses	(48.0)		9
				(103.9)	
Jun	21	Total Expenditure		(3,461.3)	
Jun	<u> </u>	Remaining Budget		308.7	
1		s original budget amount is that prior to achieving Second	Pass Government Appro	val	
2		n of AIR9000 Phase 4 (Black Hawk Upgrade/Replacemen			
3	The funding	related to facilities elements of the project was managed b	by Defence Estate and In	frastructure Group ([DE&IG).
4		DE&IG for Facilities Infrastructure (\$20.0m), temporary ar at 5 Avn Regt (\$0.05m).	nenities at 6 Avn Regt (\$0.2m) and for facil	ity
5	Real Cost Inc	crease funding for Full Flight Mission Simulator.			
6		n for Budget Adjustment (\$87.4m). This was offset and co n the BORIS Bi-Annual update.	prrected by CFO by a sub	sequent Exchange	
7	was \$556.1n	2010, indexation was applied to project budgets on a peri n. In addition to this amount, the impact on the project bud applied to the remaining life of the project.			
8		diture: \$353.5m for operating expenditure, contractors, co o the aforementioned contracts.	nsultants and other capit	al expenditure not	
9		diture: \$48.0m which includes \$40.1m for capability re-de: \$1.9m for other capital expenditure not attributable to the			rating

2.2A In-year Budget Estimate Variance

Z.ZA III-year Duuget			
Estimate	Estimate	Estimate	Explanation of Material Movements
PBS \$m	PAES \$m	Final Plan \$m	
122.5	98.5	97.3	PBS to PAES: The variation primarily reflects the
			reprogramming of Prime Contract milestones and capability funding for delays in deliverables associated with the stand up of 6 Aviation Regiment.
			PAES to Final Plan: The variance primarily reflects the reprogramming of capability funding.
Variance \$m	(24.0)	(1.2)	Total Variance (\$m): (25.2)
Variance %	(19.6)	(1.2)	Total Variance (%): (20.6)

2.2B In-year Budget/Expenditure Variance

Estimate	Actual	Variance	Variance Factor	Explanation
Final Plan \$m	\$m	\$m		
		5.9	Australian Industry	The positive \$6.6m variance is
			Foreign Industry	primarily due to net adjustments to
			Early Processes	payment phasings across the Prime
		1.2	Defence Processes	Acquisition Contract and
			Foreign Government	reprogramming of spend against contracts for other procurement
			Negotiations/Payments	requirements in line with latest
			Cost Saving	
		(0.5)	Effort in Support of Operations	schedule information.
			Additional Government Approvals	
97.3	103.9	6.6	Total Variance	
		6.8	% Variance	

2.3 Details of Project Major Contracts	
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Contrac	s of Project	nature Date		Price at	Type (Price	Form of Contract	Notes
	J		Signature \$m		Basis)		
				\$m			
Airbus A	λP	Jun 05	846.3	2,946.8	VARIABLE	Standard Defence Contract	1,2,3,4
CAE Australia	a	Dec 07	180.5	176. 5	VARIABLE	Standard Defence Contract	4,5
NAHEM	IA	Oct 19	20.5	20.9	VARIABLE	Non-Standard Defence Contract (Multi Nation)	4,7
Leonard Australia		Apr 18	16.3	16.7	VARIABLE	Deed	4,6
Notes							
1	MRH Instr GMMS, 1	umented Sys Reduced, 9 L	tem and 23 Grou ight and 2 interir	c Warfare Self Protection Sup and Mission Management Sys n GMMS). Contract Base dat	stem (GMMS) (4 Fixe e is January 2004.	ed GMMS, 7 Deployat	ble
2				s an airborne instrumentation hat have provisions to have t			n and
4	been key (Stores Ca Fuel Tank Contract v current ex The Comn in Decemb	CCPs proces rriers (HSCs) s (EAFTs) Pa alue as at 30 change rates nonwealth co per 2015.	sed for an Aeron , Taipan Gun Ma ackaging. June 2021 is ba , and includes ac nducted negotiat	I scope changes as described nedical Evacuation Mature Sy pount, Fast Roping, Rappelli sed on actual expenditure to ljustments for indexation (who ions with the Contractor, to re ct with Leonardo Australia for	vstem (Phase 1), repl ng and Extracting \$ 30 June 2021 and re ere applicable). eview and settle com	lacement Cargo Hook System and External A emaining commitment mercial and technical	s, Heavy Auxiliary at issues,
-	repair and	overhaul fac	ility.			•	
7	Logistics	Managemer		tract with the NATO Helico (NAHEMA) as a Contributin			
Contrac		ntracted Qua	antities as at 30 Jun 21	Scope		Notes	
Airbus A		12		MRH90 Aircraft		1	
CAE Australia		2		Full Flight and Mission Simul	ator	·	
NAHEM		1	1	AMT			
Leonard Australia		N/A		Repair and overhaul capabili helicopter transmission, inclu repair facility, initial spares, p costs, and transmission palle	iding a personnel		
Forty-se			uantities to 30 Ju een accepted to	un 21 date. Both Full Flight Mission	Simulators have be	en accepted by the	
Notes	anweaith.						
Notes 1			ARH90 was nego t impacting the o	otiated as part of Deed 2. This	s enables the use of	one aircraft as a Grou	nd

Section 3 – Schedule Performance

3.1 Design Review Progress

Review	Major System / Platform Variant	Original Contracted	Current Contracted	Achieved /Forecast	Variance (Months)	Notes
System	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
	MRH aircraft - Phase 2	Jan 06	Jan 06	Apr 06	3	

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Prelimi	nary	MRH aircraft - Phase 4/6	N/A	N/A	Jun 08	N/A	
Design		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		Delays in the Systems Engineering process have resulted from the more developmental nature of the aircraft system, with the MRH90 variant being unique in some ways.					
2	Ground Mission Management System software delays are directly attributable to aircraft schedule delivery slip.						
3	Full Flight Mission Nanagement System solvare delays are unecuty autobable to anotait schedule delivery sup- suitable System and Subsystem Specification. This was compounded by delays in the prime contractor establishing a vital subcontract with the aircraft manufacturer.						

3.2 Contractor Test and Evaluation Progress

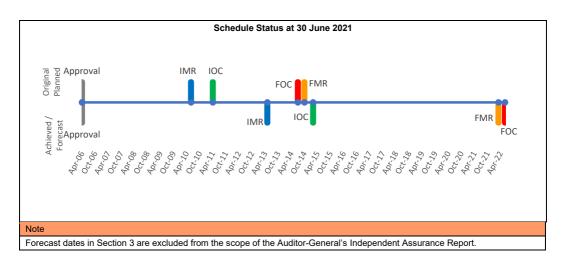
Test and Evaluation	Major System / Platform Variant	Original Contracted	Currently Contracted	Achieved /Forecast	Variance (Months)	Notes
System Integration	MRH aircraft - Phase 2	Jul 06	Nov 06	Dec 06	5	
	MRH aircraft - Phase 4/6	N/A	N/A	N/A	N/A	1
	MRH Software Support Centre	N/A	Oct 08	Nov 08	1	
	Electronic 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
	MRH Instrumented System	Nov 08	May 09	Dec 09	13	3
	Full Flight and Mission Simulators	Jun 11	Sept 11	Sep 11	4	4
Acceptance	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	Dec 07	0	
	MRH Instrumented System	Mar 10	Jun 10	Sep 11	18	9
Aircraft	MRH aircraft #01 (First aircraft)	Dec 07	N/A	Dec 07	0	
Acceptance	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	Phases 4/6 were rolled into the MRH Program from aircraft 13 onwards, which increased the number of aircraft from 12 to 46.
2	The acceptance and test-readiness of the Ground Mission Management System (GMMS) was broken into six lots post contract signature. The lots comprise of GMMS deliverables that have been aligned to aircraft delivery – location and baseline. The acceptance of GMMS lots are listed in the acceptance area of this table.
3	The 13 month delay to closure of Test Readiness Review was due to electronic compatibility test design issues not resolved until November 2009. This delay was mitigated by the development of an interim MRH Instrumentation System capability used for a test activity in October 2009.
4	Achieved through completion of Test Readiness Review for Contractor In-Plant Test and Evaluation in September 2011.
5	The first Airworthiness Board (for a Special Flight Permit (SFP)) was conducted in November 2007 and a SFP was granted in December 2007. There have been a number of SFP extensions to allow flight trials of the aircraft as it further develops. The most recent SFP was granted in December 2012 and expired in April 2013.
6	Achievement of the Australian Military Type Certificate proved problematic due to technical and reliability issues, leading to insufficient levels of the Rate of Effort. Rate of Effort was required to validate that in-service support arrangements for the fleet are sufficient to cope with current numbers of aircraft and are growing in maturity to meet fleet requirements. Australian Military Type Certificate and Service Release was achieved 17 April 2013.
7	Refers to acceptance of Full Flight Mission Simulators in Oakey and Townsville. Delays have been incurred due to the late delivery of facilities and an underestimation of the time required to implement the design.
8	Lot 1, 2 and 3 have been altered to accommodate the variation in aircraft delivery date and configuration.
9	The MRH instrumented system incurred delays due to technical and supportability issues that resulted in contractual non- conformances. These non-conformances were rectified by September 2011.
10	The MRH90 program stopped accepting aircraft in November 2010 due to a number of technical and reliability issues. The Commonwealth recommenced accepting aircraft in November 2011 after negotiating a remediation plan to address a number of engineering and contractual issues; however acceptance of aircraft was again suspended in February 2012 pending resolution of another technical concern related to the aircraft's cargo hook. In May 2012 the Commonwealth agreed to accept a further four aircraft based on Airbus AP's agreement to the commercial terms associated with the rectification of the cargo hook issue. Scheduled aircraft acceptance recommenced in June 2012 with aircraft #46 accepted in June 2017 and the final aircraft (#47) accepted in July 2017.

3 3 Progress	Toward Materiel	Release and O	perational Ca	pability Milestones

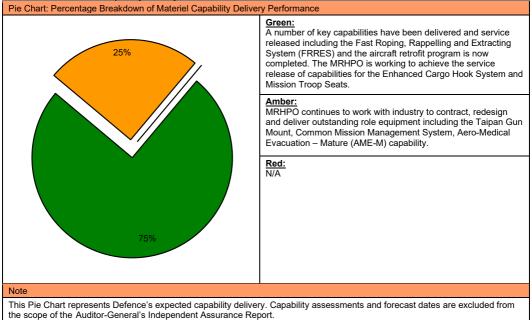
Item		Original Planned	Achieved /Forecast	Variance (Months)	Notes	
Initial Materiel Release (IMR) Army/Navy		Jun 10	May 13	35	1	
		Navy	Jul 10	Feb 15	55	2
		Army	Apr 11	Dec 14	44	3
Final Materiel Release (FMR)		Army/Navy	Oct 14	Mar 22	89	4
Final Operational Capability (FOC)		Navy	Dec 12	-	-	5
		Army	Jul 14	Jun 22	95	4,5
1	The MRH90 program stopped accepti This has impacted the achievement o	f capability milesto	nes. The Common	wealth recommend	ed accepting airc	raft in
1		f capability mileston mediation plan to a pended in February the Commonweal ssociated with the 12 with the final air	nes. The Common address a number of 2012 pending reso th agreed to accep rectification of the o	wealth recommend of engineering and olution of another t t a further four airc cargo hook issue.	ed accepting airc reliability issues; echnical concern raft based on Airl Scheduled aircraf	craft in however related to bus AP's t
1	This has impacted the achievement o November 2011 after negotiating a re acceptance of aircraft was again susp the aircraft's cargo hook. In May 2012 agreement to the commercial terms a acceptance recommenced in June 20	f capability mileston mediation plan to a pended in February the Commonweal ssociated with the 12 with the final air 03 aircraft.	nes. The Common address a number of 2012 pending reso th agreed to accep rectification of the o	wealth recommend of engineering and olution of another t t a further four airc cargo hook issue.	ed accepting airc reliability issues; echnical concern raft based on Airl Scheduled aircraf	braft in however related to bus AP's t
	This has impacted the achievement o November 2011 after negotiating a re acceptance of aircraft was again susp the aircraft's cargo hook. In May 2012 agreement to the commercial terms a acceptance recommenced in June 20 2013, based on 6 Product Baseline 00	f capability mileston mediation plan to a pended in February the Commonweal ssociated with the 12 with the final air 03 aircraft. lote 1 above)	nes. The Common address a number of 2012 pending reso th agreed to accep rectification of the o	wealth recommend of engineering and olution of another t t a further four airc cargo hook issue.	ed accepting airc reliability issues; echnical concern raft based on Airl Scheduled aircraf	braft in however related to bus AP's t

5 FOC is now only forecast as a single date. The last capability subset is to be realised by Army as Operational Capability Special Operations 2 (OCS2) when declared by Capability Manager, which is expected to trigger FOC. Ongoing delays to deliver capabilities have resulted in FOC being rescheduled to June 2022.



Section 4 – Materiel Capability Delivery Performance

4.1 Measures of Materiel Capability Delivery Performance



4.2 Constitution of Materiel Release and Operational Capability Milestones		
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 	Achieved
	Management systems necessary for Initial Operational Capability milestones.	
	Initial Material Release was achieved in May 2013.	

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		Q
Achievement of Operational Capability Maritime Support 1 (OCM1) – a single flight embarked for limited daytime operations. Achievement of Operational Capability Amphibious 1 (OCA1) Milestones – deployment of a single troop (three aircraft) in a permissive environment. Initial Operational Capability was achieved in Army – December 2014 and Navy – February 2015.	Achieved	MRH90 Helicop
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. Role equipment completion criteria is to include the transfer of Project funding and contract management responsibilities concerning the completion of the remaining long lead time acquisition activities for Aeromedical Evacuation Equipment (AMEE) to the Army Aviation System Program Office (AASPO); 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. Training completion criteria to include the transfer of Project funding and contract management responsibilities concerning the completion of the remaining long lead time acquisition activities for an additional Aircraft Maintenance Trainer (AMT) to AASPO; and All facilities and support equipment, required to support the capabilities accepted.	Not yet achieved	ummary Sheets
Cisexpected to be declared on achievement of all prational Capability Milestones providing the wing capabilities. Operational Capability Maritime (OCM3) - Three embarked flights Operational Capability Land (OCL3) - Two Airmobile Squadrons Operational Capability Amphibious (OCA4) - One Squadron capable of supporting amphibious operational Capability Special Operations Operational Capability Special Operations Support (OCS2) - One Special Operations Aviation Task Unit. al Operational Capability is forecasted to be leved in June 2022.	Not yet achieved	Part 3. Project Data Summary Sheets

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	 limited daytime operations. Achievement of Operational Capability Amphibious 1 (OCA1) Milestones – deployment of a single troop (three aircraft) in a permissive environment. Initial Operational Capability was achieved in Army – December 2014 and Navy – February 2015. 	
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. Role equipment completion criteria is to include the transfer of Project funding and contract management responsibilities concerning the completion of the remaining long lead time acquisition activities for Aeromedical Evacuation Equipment (AMEE) to the Army Aviation System Program Office (AASPO); 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. Training completion criteria to include the transfer of Project funding and contract management responsibilities concerning the completion of the remaining long lead time acquisition activities for an additional Aircraft Maintenance Trainer (AMT) to AASPO; and All facilities and support equipment, required to support the capabilities accepted. 	Not yet achieved
Final Operational Capability (FOC)	 FOC is expected to be declared on achievement of all Operational Capability Milestones providing the following capabilities. Operational Capability Maritime (OCM3) - Three embarked flights Operational Capability Land (OCL3) - Two Airmobile Squadrons Operational Capability Amphibious (OCA4) - One Squadron capable of supporting amphibious operations Operational Capability Special Operations Support (OCS2) - One Special Operations Aviation Task Unit. Final Operational Capability is forecasted to be achieved in June 2022. 	Not yet achieved

Section 5 - Major Risks and Issues

Initial Operational Capability (IOC)

1.

5.1 Major Project Risks

Identified Risks (risk identified by standard project risk management processes)		
Description Remedial Action		
All Major project risks are closed or are being managed as issues.	1. N/A	
Emergent Risks (risk not previously identified but has emerged during 2020-21)		
Description	Remedial Action	
Nil 1. N/A		

5.2 Major Project Issues

Description	Remedial Action	
The current Cargo Hook Design is incompatible with Australian Defence Equipment which will delay the final solution delivery.	 Enhanced Cargo Hook System Service Release was achieved Q3 2020 as forecast. Enhanced Cargo Hook System delivered to Navy in Q4 2020. This issue can be closed 	

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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	 Formation of Cabin Integration Working Group; Industry Prototyping; Accept incremental improvements; Use of Liquidated Damages as offset Leverage NATO Helicopters 90 (NH90) community solutions MAA v2.5 (approved 9 July 2019) approved a re-baselined FMR Ongoing delays require further review of the MAA. The MAA is to be reviewed and updated at its next annual review.
The initial AME solution is not suitable for high care or multiple extractions which will delay the final solution delivery schedule.	 An Aero-Medical Evacuation capability working group was initially formed and has now evolved into an IPT. The functional requirements specification has been agreed with Commonwealth stakeholders and Industry. Phase 1 of the AME solution is in contract. Industry has been contracted to conduct an Advanced Change Study Notice to inform and de-risk the solution for the remaining AME capability to be delivered. After agreement of the results of the ACSN the agreed solution will be contracted.
Existing helicopter support facilities will require modification or upgrade to accommodate the MRH90.	 Facilities works for 6 Avn Regt are complete. Estate and Infrastructure Group have completed the Concept Design Report for 5 Avn Regt Facilities Remediation with funding transferred from the project. This issue is closed. Contingency has been applied (committed) in support of this issue.
The current design of the self-protection weapons system is not meeting capability requirements.	 The Taipan Gun Mount will replace the current self-protection weapons system. The Taipan Gun Mount (TGM), which is capable of mounting both the M134D Mini-Gun and Mag-58 General Purpose Machine Gun, design and manufacture was procured by the project to meet the specified MRH Capability Requirements. Maintenance Training for Armourers on M134D was funded by the project and has been conducted. TGM has achieved Incorporation Approval and all artefacts supporting Service Release have been submitted. This issue will be closed when the TGM is granted Service Release. Contingency has been applied (committed) in support of this issue.
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.	 Aviation Management System (formerly Common Mission Management System) has been released, implementing the mandated Joint Mission Planning System. This issue is closed. Contingency has been applied (committed) in support of this issue.
Spares will need to be procured to support the new role equipment and capabilities being developed for the MRH90	 As new Role Equipment is developed for MRH90 spares to support the new items are being procured. Spares Assessments are planned to be conducted after in-service use of the role equipment to ensure that spares are procured on the basis of actual failure rates in use rather than forecast failure rates. This issue will be closed when MRH90 role equipment has been granted Service Release. Contingency has been applied (committed) in support of this issue.
The MRH90 capability transition into 6 Avn Regt has been affected by delays in delivery of key capability and role equipment leading to a delay of MRH90 transition and extension of Black Hawk for 6 Avn Regt operations.	 Form 6 Avn Regt Integrated Project Team. Monitor delivery of key capabilities. Mitigate delays including through Industry collaboration. Implement solution for each deliverable. Contingency has been applied (committed) in support of this issue.
The MRH Program may not be able to retain sufficient levels of experienced and skilled work force to achieve the required rate of Acquisition deliverables leading to an impact on schedule and capability.	 Funding is available for contracted staff as required. This issue is closed. Contingency has been applied (committed) in support of this issue.
Note Major risks and issues in Section 5 are excluded from	the scope of the Auditor-General's Independent Assurance Report.

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Section 6 - Lessons Learned

6.1 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 7 – Project Line Management

7.1 Project Line Management as at 30 June 2021		
Position Name		
Division Head	ision Head Mr Shane Fairweather	
Branch Head BRIG James Allen		