

Project Data Summary Sheet¹⁷²

Project Number	SEA 1439 Phase 3
Project Name	COLLINS CLASS SUBMARINE RELIABILITY AND SUSTAINABILITY
First Year Reported in the MPR	2009-10
Capability Type	Upgrade
Acquisition Type	Australianised MOTS
Capability Manager	Chief of Navy
Government 1st Pass Approval	N/A
Government 2nd Pass Approval (or key Government pre-Second Pass Approval)	Sep 00
Budget at 2 nd Pass Approval (or key Government pre-Second Pass Approval)	\$72.0m
Total Approved Budget (Current)	\$445.8m
2019-20 Budget	\$15.9m
Project Stage	Initial Materiel Release
Complexity	ACAT III



Section 1 – Project Summary

1.1 Project Description

SEA 1439 Phase 3 is a program of upgrades to Collins Class platform systems and shore infrastructure to improve the Class reliability, sustainability, safety and capability for each of the six submarines.

1.2 Current Status

Cost Performance

In-year

This year the project underspent by **\$2.7m** against the **2019-20** budget of **\$15.9m**. The underspend was **primarily due to a lower than anticipated spend with the prime contractor**.

Project Financial Assurance Statement

As at **30 June 2020**, project SEA 1439 Phase 3 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

The project consists of 24 separate sub-projects of which the outstanding elements are aligned to the Collins Class Submarine Integrated Master Schedule (IMS). The IMS depicts the submarine maintenance periods where project implementation can be performed. Submarine installations are consistent with the approved Materiel Acquisition Agreement (MAA) schedule; however, each installation is dependent on the Full Cycle Docking (FCD) program and Enterprise priorities, consequently completion dates vary according to the maintenance program and the focus of ensuring submarines availability targets are achieved.

Testing for Special Forces upgrades and torpedo decoy capability has been completed, with formal IOC for Special Forces upgrade forecast for **October 2021** and formal FOC subsequently forecast for **December 2022**. Formal FOC for the torpedo decoy has been realigned with the remaining sub-projects. FMR and FOC (all capabilities delivered) remains forecast for **December 2022** and June 2023 respectively.

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Forecast dates and Sections: 1.2 (Material 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.

Material Capability Delivery Performance

Only two sub-projects provide new capabilities; Special Forces Upgrade and the Torpedo Decoy. The remaining sub-projects are medium to low complexity engineering enhancements. The Special Forces upgrade provides three capabilities. Two have achieved Operational Release (OR), while the third capability was delayed due to required safety modifications which are now complete, with formal Initial OR expected to be achieved by **July 2021**.

Torpedo Decoy received Initial OR on 2 May 2014 by Chief of Navy.

Fourteen engineering enhancements have been completed by the project. The remaining enhancements will be implemented progressively until 2022 subject to submarine availability and the FCD program.

Note

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

1.3 Project Context

Background

In 1999, Government sponsored the *'McIntosh and Prescott Report'* into submarine capability, which was followed by a subsequent review by Head Submarine Capability Team who identified capability, reliability and sustainability issues with the Collins Class platform and associated shore infrastructure. In 2000, Government approved project funds to design and implement engineering enhancements for as many of these capability and materiel deficiencies as possible within the allocated budget. Government also approved a "global budget" whereby Head Maritime Systems could approve transfer of funding between SEA 1439 Phase 3, SEA 1439 Phase 4B (Improvements to Collins Sensors), SEA 1439 Phase 4A (Replacement Combat Systems) and SEA 1429 (Replacement Heavyweight Torpedo) to achieve optimum capability. Under the global budget there have been reductions in funding allocations to SEA 1439 Phase 3 in favour of SEA 1439 Phase 4A and SEA 1429, with a commensurate reduction in the number of engineering enhancements to be implemented through SEA 1439 Phase 3.

The scope of this project is limited to the reliability and sustainability issues identified in the 1999 review and not the more contemporary reliability and sustainability issues relating to diesel engines, generators, batteries or the main motor; those issues are being addressed under the submarine sustainment program.

Many of the engineering enhancements can only be installed during the submarine FCD program and although most design and development activities are complete, submarine upgrades are contingent on the FCD program, which will run to 2022.

A total of 24 platform upgrades were originally identified in the initial MAA. However, in 2011 two were removed due to one being technically infeasible and the other overlapping with another project. The remaining 22, which consisted of two new capabilities and 20 engineering enhancements, were identified for action under the project. Fourteen of these engineering enhancements have been completed and the two new capabilities are being implemented.

At that time, the two new capabilities and core engineering enhancements managed by the SEA 1439 Phase 3 project, which represented the highest priority and spend profile, and specifically disclosed in this report include:

- **Special Forces Upgrade (New Capability):** To provide three basic levels of capability and to further enhance the capabilities to a fully deployable state.
- **Torpedo Counter Measures Internal Stores (Torpedo Decoy) (New Capability):** To provide a programmable counter measure against torpedos.
- **Fire Fighting Upgrade (Engineering Enhancement):** Upgrade to the firefighting systems onboard including greater protection from fire and its toxic by-products.
- **Sewage System Upgrade (Engineering Enhancement):** Automation of the sewage discharge system and thereby reduce the risks of exposure to toxic gases.
- **Fast-Track modifications to HMA Ships Collins, Farncomb, Waller and Rankin (Engineering Enhancement):** Address platform build deficiencies in a holistic get-well program.

The remaining platform upgrades (engineering enhancements) are outlined in ANAO Report No. 17 2010-11: *2009-10 Major Projects Report*.

In November 2017, Government approved the transfer of the remaining budget and scope of projects SEA 1114 Phase 3 and SEA 1439 Phase 5B1 into SEA 1439 Phase 3 to realise project management, reporting and workforce efficiencies in the Collins Class Submarine Program. This represents two additional engineering enhancements:

- **Dived Safety Modifications:** To improve safety while submarines are dived. The SEA 1439 Phase 3 project will perform the final two submarine installations.
- **Communications Mast and Antenna Replacement:** To replace the communications fit developed under Project SEA1439 Phase 4B. The SEA 1439 Phase 3 project will perform the final submarine installation.

The transfer of this scope has not impacted the forecast FMR or FOC milestones.

Uniqueness

Project SEA 1439 Phase 3 installs prioritised engineering enhancements and acquires replacement materiel as a part of ensuring continuous improvement of the Submarine fleet. Engineering enhancements were undertaken by ASC under an annualised cost-plus Through Life Support Agreement (TLSA); however as of 1 July 2012 this work is now contracted under an ISSC initially as a performance based and cost-reimbursement arrangement with a subsequent three year target based incentive period.

Implementation of the ASC contract scope of work is linked to the boat IMS and driven by availability requirements mandated by Chief of Navy and General Manager Submarines.

Budget management under the cost reimbursement arrangement of the ISSC presents a major challenge for the project in achieving monthly expenditure. This is due to the alignment of linear phased expenditure and the supplier's ability to move work within the total work program to achieve Enterprise agreed objectives and contracted performance goals.

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<p>Major Risks and Issues</p> <p>Risks associated with engineering enhancements (including elements of the Firefighting and Special Forces upgrades) are being actively addressed by the project, as evidenced by two risks being retired in 2019 and a further two risks having post mitigation risk ratings of Low and Medium.</p> <p>The technical challenges with the Special Forces and Fire Fighting sub-projects of the project have increased overall cost and schedule risk, however neither sub-project is expected to require amendment to the project's approved budget, capability delivery or Final Operational Capability date.</p>
<p>Other Current Related Projects/ Phases</p> <p>SEA 1114 Phase 3 Dived Safety Modifications: The remaining project scope includes modifications to increase the safety of the submarines while dived. Government approved a change of scope to have SEA 1114 Phase 3 fit four submarines with the modifications and SEA 1439 Phase 3 fit two submarines with the modifications. The Chief of Navy declared Final Operational Capability for this project in August 2019.</p> <p>SEA 1439 Phase 3.1 Collins Obsolescence Management - Integrated Ship Control Management and Monitoring System Obsolescence: Project scope includes remediating obsolescence of the Integrated Ship Control Management and Monitoring System in the Collins Submarines and shore facilities.</p> <p>SEA 1439 Phase 5B1 Communications Mast and Antenna Replacement Class Fit: The project aims to fit five submarines with the communications fit developed and tested under Project SEA 1439 Phase 4B, along with one spare antenna, one spare mast raising equipment and spares. In November 2017, Government approved a change of scope to have SEA 1439 Phase 5B1 fit four submarines with the communications fit and SEA 1439 Phase 3 fit one submarine with the communication fit. The Chief of Navy declared Final Operational Capability for this project in October 2019.</p> <p>SEA 1439 Phase 5B2 Collins Class Communications and Electronic Warfare Program: The Project scope is to enhance the Communications and Electronic Warfare capabilities of the Collins Class submarine. The project is broken up into two sections - the Modernised Submarine Communications System, an upgrade to the existing on board communications system, and the Microwave Electronic Support Measures, an enhancement to the existing Electronic Warfare capability.</p> <p>SEA 1439 Phase RCE3 EHF Communications Capability: Extreme High Frequency (EHF) Communications Capability for a single Collins Class Submarine. The Chief of Navy declared Final Operational Capability for this project in October 2019.</p> <p>SEA 1439 Phase 6 Collins Sonar Capability Assurance Program: The project scope is to address obsolescence and capability deficiencies in the Collins Class Sonar System and establish an ongoing capability assurance program.</p>
<p>Note</p> <p>Major risks and issues are excluded from the scope of the Auditor-General's Independent Assurance Report.</p>

Section 2 – Financial Performance

2.1 Project Budget (out-turned) and Expenditure History

Date	Description	\$m	Notes
	Project Budget		
Sep 00	Original Approved (Second Pass equivalent)	72.0	
Apr 01	Real Variation - Transfers	3.7	1
Jul 01	Real Variation - Scope	302.8	2
Sep 02	Real Variation - Transfers	(42.0)	3
Aug 04	Real Variation - Budgetary Adjustments	(0.3)	4
Aug 05	Real Variation - Budgetary Adjustments	(0.5)	5
Oct 06	Real Variation - Scope	7.5	6
Feb 19	Real Variation - Scope	33.7	8
		304.9	
Jul 10	Price Indexation	74.4	7
Jun 20	Exchange Variation	(5.5)	
Jun 20	Total Budget	445.8	
	Project Expenditure		
Prior to Jul 19	Contract Expenditure - ASC Pty Ltd	(262.5)	
	Other Contract Payments / Internal Expenses	(115.8)	9
		(378.3)	
FY to Jun 20	Contract Expenditure - ASC Pty Ltd	(3.8)	
	Other Contract Payments / Internal Expenses	(9.3)	10
		(13.1)	
Jun 20	Total Expenditure	(391.4)	
Jun 20	Remaining Budget	54.4	
Notes			
1	Transfer from SEA 1439 Phase 1B.		
2	Implementation of a reliable and sustainable Platform (full scope).		

3	Transfer to SEA 1439 Phase 4A as part of initial approval.
4	Administrative Savings harvest.
5	Skilling of Australia's Defence Industry harvest.
6	Real Cost Increase for Special Forces Upgrade modification to an additional Collins Class submarine.
7	Up until July 2010, indexation was applied to project budgets on a periodic basis. The cumulative impact of this approach was \$66.7m. In addition to this amount, the impact on the project budget as a result of out-turning was a further \$7.7m having been applied to the remaining life of the project.
8	The Total Budget was increased in FY18/19 to \$445.3m, following the transfer of scope from Projects SEA 1114 Phase 3 and SEA 1439 Phase 5B1.
9	Other expenditure comprises \$56.7m against multiple minor contracts with Defence companies (including Australian companies), contractor and consultancy services associated with the delivery of this project and project specific travel expenses. Other examples of significant expenditure include \$12.3m for the Propulsion Control Reference System, \$11.7m to L3 Nautronix Ltd for the underwater communications system and sonobuoy, \$9.3m for the Towed Array Handling System, \$8.2m for general operating expenditure, \$4.7m for contractor service providers, \$4.1m for minor contracts, \$3.7m with Thales for the Underwater Telephone, \$3.1m for decoy procurement, and \$2.0m for generator procurement.
10	Other expenditure comprises \$8.4m for propeller FMS case payment , \$0.6m for decoy procurement \$0.3m for other capital and operating expenditure .

2.2A In-year Budget Estimate Variance

Estimate PBS \$m	Estimate PAES \$m	Estimate Final Plan \$m	Explanation of Material Movements
5.8	15.9	15.9	PBS-PAES: Revised upwards by \$10.1m due to propeller FMS case payment moved from FY18/19, additional decoy procurement and revised CASG estimates .
Variance \$m	10.1	0.0	Total Variance (\$m): 10.1
Variance %	174.1	0.0	Total Variance (%): 174.1

2.2B In-year Budget/Expenditure Variance

Estimate Final Plan \$m	Actual \$m	Variance \$m	Variance Factor	Explanation
		(2.7)	Australian Industry	The \$2.7m underspend was primarily due to the lower than anticipated spend with the prime contractor .
			Foreign Industry	
			Early Processes	
			Defence Processes	
			Foreign Government Negotiations/Payments	
			Cost Saving	
			Effort in Support in Operations	
			Additional Government Approvals	
15.9	13.1	(2.7)	Total Variance	
		(17.2)	% Variance	

2.3 Details of Project Major Contracts

Contractor	Signature Date	Price at		Type (Price Basis)	Form of Contract	Notes
		Signature \$m	30 Jun 20 \$m			
ASC Pty Ltd	Jul 12	N/A	N/A	Variable (Cost Reimbursement)	ASDFCON	1
Notes						
1	The contract is comprised of five year Performance Periods from 1 July 2014 - Target Cost Incentive Model arrangements with Direct Project Costs (DPCs) reimbursed subject to defined rules and constraints and an agreed Target Cost Estimate of DPCs for the five year Period, reset at the end of three years. The PP3 extension to the ISSC was signed in June 2017.					
Contractor	Quantities as at		Scope	Notes		
	Signature	30 Jun 20				
ASC Pty Ltd	N/A	N/A	See 1.3 Project Context: Background for further information.			
Major equipment accepted and quantities to 30 Jun 20						
A total of 24 platform upgrades (consisting of two new capabilities and 22 engineering enhancements) continue to be progressed for each of the six submarines - subject to the IMS.						

Section 3 – Schedule Performance

3.1 Design Review Progress

Review	Major System / Platform Variant	Original Planned	Current Planned (Note 1)	Achieved / Forecast (Note 1)	Variance (Months)	Notes
Final Design Review	Special Forces Upgrade	N/A	N/A	Dec 04	N/A	2
	Torpedo Decoy	Jun 10	N/A	Jul 10	1	

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	Fire Fighting Upgrade	N/A	N/A	Jun 04	N/A	2
	Sewage System Upgrade	N/A	N/A	Nov 04	N/A	2
	Fast Track Enhancements	N/A	N/A	N/A	N/A	2
• First of Class Implementation	Special Forces Upgrade	Jun 05	N/A	Oct 07	28	3,4,7
	Torpedo Decoy	Jun 10	N/A	Jun 10	0	
	Fire Fighting Upgrade (RANKIN)	Jul 06	N/A	Oct 07	15	
	Sewage System Upgrade (WALLER)	Jul 06	N/A	Jul 08	24	
	Fast Track Enhancements (RANKIN)	May 01	N/A	Jun 06	61	
• Full Class Implementation	Special Forces Upgrade	May 08	May 18	Jul 18	122	3,4,7
	Torpedo Decoy	Oct 13	N/A	Dec 13	2	5
	Fire Fighting Upgrade (DECHAINEUX)	Sep 22	N/A	May 22	(4)	6
	Sewage System Upgrade (COLLINS)	Mar 17	N/A	Jun 18	15	7
	Fast Track Enhancements (WALLER)	Jul 06	N/A	Nov 07	16	

Notes

1	The above data represents rolled-up information within the listed sub-projects each of which has many independent design review activities associated with over 100 Configuration Change Proposals. As the critical path for these sub-projects was broadly defined by the submarine docking program, individual activities within each of the above sub projects were allowed to move provided the delivery of the capability was not impacted adversely by delaying the completion of the specific docking. Although some individual activities were ahead or behind schedule the project has maintained the critical path as defined by the submarine docking program.
2	In some instances, the original planned schedule for sub projects was incorporated into the submarine maintenance schedule which was maintained by ASC. ASC update the maintenance schedule annually and do not retain original schedule information. Consequently, apart from post June 2005 activities supported by a MAA, it is not possible to provide the original planned dates for some platform upgrade projects, which were scheduled to occur during an unstable FCD Program. Fast Track was initially installed on two submarines and managed under SEA 1446 Phase 1 Collins Class Interim Minimum Operating Capability. SEA 1439 Phase 3 is responsible for rolling out those changes to the remaining four submarines. As such, all design and associated design review and approval was achieved under SEA 1446 Phase 1.
3	The first of class received two of the three Special Forces capabilities. The third required redesign to increase diver safety following sea trials in 2008. The redesigned safety modifications identified were completed December 2014 and installation was completed in July 2018. Initial OR and OR are scheduled to be achieved in the months following installation.
4	The Special Forces Upgrade safety modifications identified during the manned Sea Verification Trial have been installed and harbour and sea acceptance testing completed in June 2015 and installation was completed in July 2018. Initial OR and OR are scheduled to be achieved in the months following installation.
5	Full class implementation has been achieved with the approval of the Configuration Change Instruction. Variance is a result of minor delays in the Configuration Management process.
6	Full class implementation will be achieved on completion of HMAS <i>Dechaineux</i> which is scheduled for May 2022. Initial OR and OR are scheduled to be achieved in the months following installation.
7	Full class implementation was achieved on completion in June 2018. Initial OR and OR are scheduled to be achieved in the months following installation.

3.2 Contractor Test and Evaluation Progress

Test and Evaluation	Major System/Platform Variant	Original Planned	Current Planned (Note 1)	Achieved/Forecast (Note 1)	Variance (Months)	Notes
• Harbour Acceptance Test (HAT)	Special Forces Upgrade	Jun 05	N/A	Sep 06	15	
	Torpedo Decoy	Jun 10	N/A	Jun 10	0	
	Fire Fighting Upgrade (RANKIN)	Oct 13	May 14	May 14	7	2
	Sewage System Upgrade (WALLER)	Jul 06	N/A	Mar 07	8	
	Fast Track Enhancements	N/A	N/A	N/A	N/A	
• Sea Acceptance Test (SAT)	Special Forces Upgrade	Aug 05	N/A	Dec 07	28	3
	Torpedo Decoy	Jul 10	N/A	Jul 10	0	
	Fire Fighting Upgrade	N/A	N/A	N/A	N/A	
	Sewage System Upgrade (WALLER)	Aug 06	N/A	Oct 07	14	
	Fast Track Enhancements	N/A	N/A	N/A	N/A	

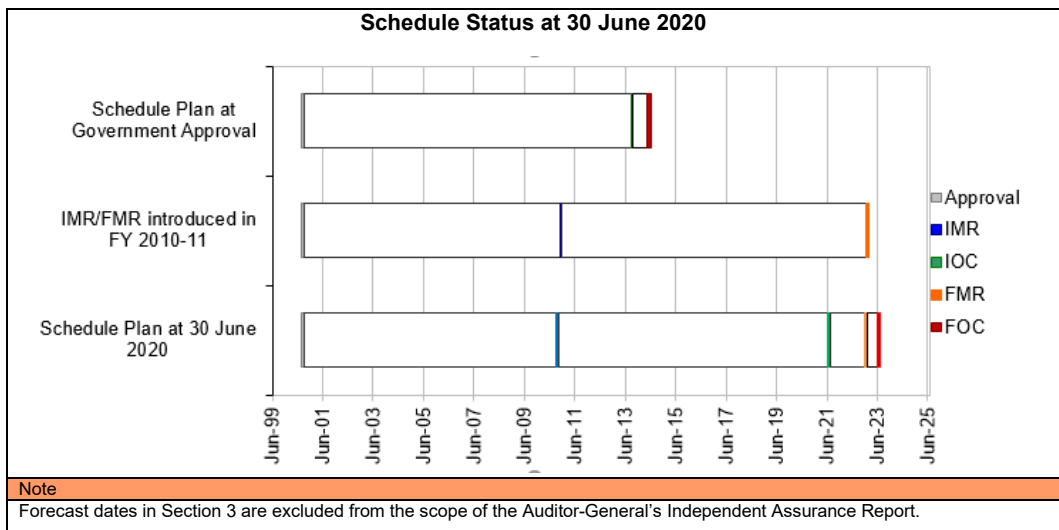
Notes	
1	Refer Section 3.1 Note 2. Fast Track was initially installed on two submarines and managed under SEA 1446 Phase 1. SEA 1439 Phase 3 is responsible for rolling out those changes to the remaining four submarines. As such, HAT and SAT was achieved under SEA 1446 Phase 1.
2	Variance was attributed to the change in schedule completion of HMAS <i>Rankin</i> FCD from October 2013 Version (IMS V3.3) and the current baselined IMS.
3	Refer Section 3.1 Note 3 and 4 and Section 3.3 Note 1.

3.3 Progress Toward Materiel Release and Operational Capability Milestones

Item	Original Planned	Achieved / Forecast	Variance (Months)	Notes	
Initial Materiel Release (IMR)	N/A	Jan 11	N/A		
Initial Operational Capability (IOC)					
Initial Operating Capability for:	Initial Operational Release Special Forces Upgrade	Nov 10	Jul 21	128	1
	Initial Operational Release Torpedo Decoy	Aug 10	May 14	45	2
	Fire Fighting Upgrade (RANKIN)	Oct 13	May 14	7	3
	Sewage System Upgrade (WALLER)	Aug 06	Oct 07	14	4
	Fast Track Enhancements	N/A	N/A	N/A	5
Final Materiel Release (FMR)	Oct 22	Dec 22	2	6	
Final Operational Capability (FOC)					
Final Operating Capability for:	Operational Release of Special Forces Upgrade	Jun 07	Dec 22	186	7
	Operational Release of Torpedo Decoy	Jun 14	Jun 23	108	8
	Fire Fighting Upgrade (DECHAINED)	Jun 14	May 22	95	9
	Sewage System Upgrade (COLLINS)	Jun 14	Jun 18	48	10
	Fast Track Enhancements (WALLER)	Jul 06	Nov 07	16	11
Six Collins Class submarines with all Supplies fitted and formally accepted	N/A	Jun 23	N/A	12	
Notes					
1	The project successfully completed trials in March 2019 and is in the process of seeking formal Initial Operational Release (IOR) from the Capability Manager. The administrative process of formal IOR has been rescheduled, with agreement from the Capability Manager Representative.				
2	Torpedo Decoy received Initial OR on 2 May 2014 by Chief of Navy. The delay in schedule has been due to a combination of delays in acceptance of the safety case and a delay in approval of the OR due to the appointment of a new Chief of Navy.				
3	IOC is linked to successful completion of the HAT, where any variance will be caused through movement in the docking maintenance schedule. These dates are based on the IMS.				
4	IOC is linked to completion of the FOC SAT. Variance due to changes in docking maintenance schedule since original MAA.				
5	Fast Track initially installed on two submarines and managed under SEA 1446 Phase 1. SEA 1439 Phase 3 is responsible to roll out to remaining four submarines. IOC was the responsibility of SEA 1446 Phase 1.				
6	FMR dates have now been aligned to the current baselined IMS and reflected in the 18 June 2018 MAA.				
7	The original MAA delivery date was for first of class only. An MAA amendment in 2006 that increased the scope created variance. FOC has been re-aligned with the current IMS program, with agreement from the Capability Manager Representative.				
8	Delay in achieving IOR for the Torpedo Decoy has caused a delay to FOR to allow for Navy to conduct the required Operational Test and Evaluation Period. Operational Test and Evaluation (OT&E) (in conjunction with other firings) was completed in 2018 and the forecast formal FOC date is June 2023 in alignment with the Project FOC date.				
9	Variance due to changes in docking maintenance schedule since original MAA.				
10	Variance due to changes in docking maintenance schedule since original MAA. Completion date linked to HMAS <i>Collins</i> FCD completion in June 2018.				
11	Fast Track initially installed on two submarines and managed under SEA 1446 Phase 1. This project installed the Fast Track upgrades across the remaining four submarines. Variance due to changes in docking maintenance schedule since original MAA.				
12	Final Operational Capability forecast date added in FY17/18 and includes the scope from Projects SEA 1114 Phase 3 and SEA 1439 Phase 5B1 that were transferred to SEA 1439 Phase 3 in FY18/19.				

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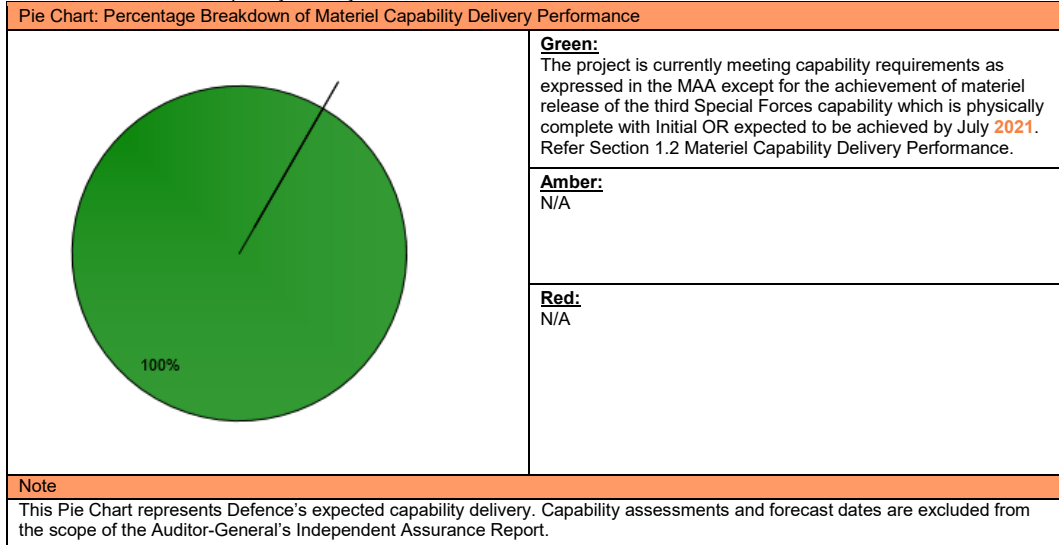
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Note
Forecast dates in Section 3 are excluded from the scope of the Auditor-General's Independent Assurance Report.

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)	<p>Completion of the following platform upgrades on all submarines unless otherwise specified:</p> <ul style="list-style-type: none"> Special Forces Upgrade: Two of the three capabilities; Torpedo Countermeasures. Fire Fighting Upgrade: HMA Ships <i>Waller</i>, <i>Dechaineux</i> and <i>Sheean</i>. Sewage System Upgrade: HMA Ships <i>Waller</i> and <i>Dechaineux</i>. Fast-Track modifications: HMA Ships <i>Collins</i>, <i>Farncomb</i>, <i>Waller</i> and <i>Rankin</i>. Other remaining subordinate projects relating to platform build deficiencies in a holistic get-well program. <p>IMR was achieved in January 2011.</p>	Achieved

Initial Operational Capability (IOC)	The Capability Manager declared Initial Operational Release for the SUBSCUT torpedo decoy in May 2014. The date of this milestone was subsequently accepted as IOC within the MAA in 2018.	Achieved
Final Materiel Release (FMR)	<p>Completion of previous Materiel Releases (Refer Section 1) and dockings up to and including HMA Ships <i>Waller</i> and <i>Dechaineux</i> FCD consisting of:</p> <ul style="list-style-type: none"> Special Forces Upgrade – All nominated Submarines, all capabilities; Diesel Engine Upgrades: All Submarines (expected end HMAS <i>Waller</i> FCD (May 2020); Dived Safety Modifications to HMA Ships <i>Waller</i> and <i>Dechaineux</i>; and Communications Antenna Capability Enhancement to HMAS <i>Waller</i>. <p>FMR is planned for December 2022.</p>	Not yet achieved
Final Operational Capability (FOC)	<p>Six Collins Class submarines with all Supplies delivered, formally accepted, and operationally ready to deploy, including:</p> <ul style="list-style-type: none"> All 22 engineering enhancements and 2 new capabilities accepted by the Capability manager, and All Fundamental Inputs to Capability (FIC) delivered to support the submarines. <p>FOC is planned for June 2023.</p>	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
There is a chance that current improvements required for the Fire Panel will not be implemented to meet schedule of current planned installations during FCDs and MCDs because of delays in integrating the panel into its planned operating environment.	<ul style="list-style-type: none"> Regular meetings with stakeholders to monitor progress. Development of an interim solution as a work around. <p>This risk has been reduced to Medium (post-mitigation) due to reduced likelihood of risk realisation.</p>
There is a chance that one of the Special Forces subsystems will require maintenance and repair on each occasion the subsystem is utilised because of limited schedule maintenance opportunities.	<ul style="list-style-type: none"> Improvement in the of regular maintenance regime of the DABS Systems to reduce defects. <p>This risk has been reduced to Low (post-mitigation) due to reduced likelihood of risk realisation.</p>
Emergent Risks (risk not previously identified but has emerged during 2019-20)	
Description	Remedial Action
N/A	N/A

5.2 Major Project Issues

Note
Major risks and issues in Section 5 are excluded from the scope of the Auditor-General's Independent Assurance Report.

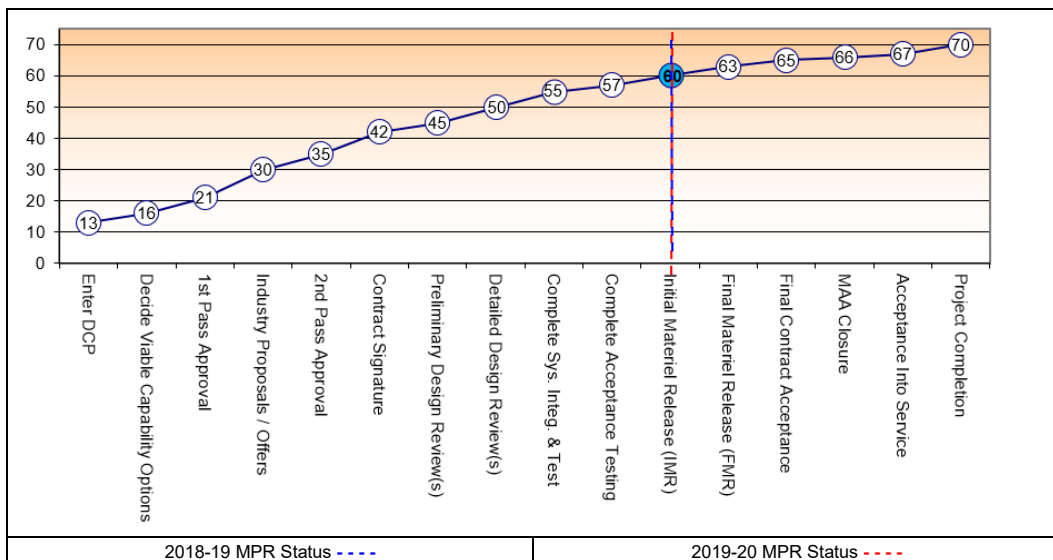
Section 6 – Project Maturity

6.1 Project Maturity Score and Benchmark

Maturity Score		Attributes							Total
		Schedule	Cost	Requirement	Technical Understanding	Technical Difficulty	Commercial	Operations and Support	
Project Stage	Benchmark	10	8	8	8	9	8	9	60
Initial Materiel Release	Project Status	9	8	8	9	9	8	9	60
	Explanation	<ul style="list-style-type: none"> Schedule: The schedules for the two additional sub-projects are aligned with the existing sub-projects hence there is no additional schedule pressure or change to maturity score. Technical Understanding: All 24 sub-projects have had installation completed on at least one submarine. Over half of the sub-projects are in operation and have been transferred to the end users. 							

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Section 7 – Lessons Learned

7.1 Key Lessons Learned

Project Lesson	Categories of Systemic Lessons
Ensure that all capability requirements are clearly defined, approved and appropriately funded before detailed acquisition planning commences.	Requirements Management
Ensure that maintenance period schedule dependencies are identified and appropriate risk management strategies developed.	Schedule Management
Consider the impact associated with long term sole source cost plus contracts.	Contract Management
Understand the competing priorities within a program (ISS Performance Term Contract) and how they will impact on individual project performance.	Schedule Management Contract Management
Responsibilities need to be clearly defined between project stakeholders in regards to the development and endorsement of trial documents and that this is identified well in advance of scheduled trials.	Governance

Section 8 – Project Line Management

8.1 Project Line Management as at 30 Jun 2020

Position	Name
Division Head	Mr Gregory Sammut
Branch Head	CDRE Richard Fitzgerald
Project Director	CAPT Adam Lindsay
Project Manager	Mr George Paragios

