Part 3. Project Data Summary Sheets

Project Data Summary Sheet¹⁴⁵

Project Number	AIR6000 Phase 2A/2B
Project Name	NEW AIR COMBAT
	CAPABILITY
First Year Reported in the MPR	2010-11
Capability Type	Replacement
Capability Manager	Chief of Air Force
Government 1st Pass	Nov 06
Approval	
Government 2nd Pass	Nov 09 (Stage 1)
Approval	Apr 14 (Stage 2)
Budget at 2 nd Pass Approval	\$13,264.1m
Total Approved Budget	\$15,630.7m
(Current)	
2020-21 Budget	\$2,252.9m
Complexity	ACAT I



Section 1 - Project Summary

1.1 Project Description

The AIR6000 Phase 2A/2B project is introducing the F-35A Joint Strike Fighter (JSF) capability that will meet Australia's air combat needs out to 2030 and beyond. Phase 2A/2B of the project is approved to acquire seventy-two Conventional Take Off and Landing (CTOL) F-35A JSF aircraft to establish three operational squadrons, a training squadron and necessary supporting/enabling elements to replace the F/A-18A/B Hornet capability.

Lockheed Martin is contracted to the United States (US) Government for the development and production of the F-35A JSF. The aircraft and associated support systems are being procured through a government to government co-operative agreement with the US and JSF partner nations, comprised of the United Kingdom, Canada, Italy, Denmark, Norway, Netherlands and Turkey. However, in July 2019 the US Government made a unilateral decision to suspend Turkey from the F-35 Program. Turkey is no longer a member of the F-35 partnership. Outside of the partnership, Japan, Israel, the Republic of Korea, Belgium, Poland and Singapore are procuring the F-35 JSF via US Foreign Military Sales (FMS).

1.2 Current Status

Cost Performance

In-year

30 June 2021 – The year-end cost variance of 13.9% or \$312.5m has been driven primarily by air vehicle and engine work performed prior to end of year but not yet invoiced. There was no change to materiel delivery but the introduction of accrual accounting meant the expenditure was recognised earlier than planned. Overall during the financial year, core contracted arrangements were performed in accordance with contracted requirements and project expectations, reported at Budget Estimates 2021-22.

Project Financial Assurance Statement

In consideration of risks disclosed at Section 5.1, as at 30 June 2021, Project AIR6000 Phase 2A/2B has reviewed the approved scope and budget for those elements required to be delivered by the project. In 2019, the project obtained Government approval to move a final scope element between AIR6000 program phases, resolving the Project AIR6000 Phase 2A/2B affordability issue advised to Government in 2017. The approved changes have not increased funding for AIR6000 Phase 2A/2B or other associated program phases. Defence considers there is sufficient budget, including contingency, remaining for the project to deliver the revised scope. The project will continue to address cost risks in annual updates to Government.

Contingency Statement

The project has not applied contingency in the financial year.

145 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 Audior-General in Part 3 of this report.

Schedule Performance

Initial Operating Capability (IOC) was achieved on 28 December 2020, despite COVID-19 impacts. However, the COVID-19 pandemic has increased the uncertainty and complexity of delivery of the F-35 Program. At this time, AIR6000 Phase 2A/2B has identified a number of activities that have been affected by the global situation. COVID-19 is a rapidly evolving environment and the effects on AIR6000 Phase 2A/2B have been largely mitigated to date, which include restrictions on international travel, supply chain and workforce.

The first two aircraft to be permanently based in Australia arrived in Williamtown on 10 December 2018, as planned in the schedule established at 2014 approval. In the 2020-21 financial year Australia accepted 14 aircraft bringing the total Australian fleet to 40.

Pilot and maintainer training were initially conducted in the US; both have now commenced in Australia.

The Australia Canada United Kingdom Reprogramming Lab (ACURL) Phase 1 system installation and testing was completed in December 2019, with operational evaluation completed in January 2020. The ACURL facility was commissioned 24 February 2020 and formal reprogramming operations have commenced. ACURL Phase 2 activities have continued in parallel with planning for the building extension and next generation reprogramming tools underway.

Facilities construction at RAAF Base Tindal is complete with ICT and security accreditation finalised, and 75SQN personnel taking up occupation. Facilities construction at RAAF Base Williamtown is complete, including the Retail Warehouse, and was occupied by 81WG in April 2021. The full length runway extension became operational in August 2020. Sustainment of the global F-35 fleet is provided through the Global Support Solution (GSS), which is still maturing as the global fleet grows. The 2014 US Government assignment of regional Airframe and Engine Maintenance, Repair, Overhaul and Upgrade responsibilities to Australia has assisted in the planning of Australian sustainment. In November 2016, the US Government assigned the regional maintenance and repair of 64 Tier 1 components to four Australian companies and in February 2019, 343 Tier 2 components to seven Australian companies. A Tier 3 F-35 Joint Program Office (JPO) component Request For Information is anticipated to be released in 2021/22. Soverign sustainment requirements have been defined and JSF Branch is working closely with the F-35 JPO and industry on the planning and execution of these requirements.

Materiel Capability Delivery Performance

The F-35A JSF Air Vehicle met Initial Operating Capability (IOC) by the scheduled date of December 2020. Williamtown and Tindal facilities are complete. The Verification and Validation (V&V) Program has progressed well, mitigating risks to Final Operating Capability (FOC), but has also been impacted by COVID-19.

Most of the capability requirements of FOC are delivered by the extant integrated F-35 Air System and new developments are on track for incorporation in production Lots 13-15. AIR6000 Phase 2A/2B will continue to contribute to JSF Program developments to enable Australia to consider capability options and upgrades. AIR6000 Phase 2A/2B has options to deliver Maritime Strike capabilities in a timeframe closely following that of the United States Navy. AIR6000 Phase 2A/2B will also continue to invest in F-35A development toward advanced Maritime Strike options open for consideration under AIR3023 in the context of a Joint Maritime Strike strategy.

On 15 January 2020, the United States Government Under Secretary of Defense for Acquisition and Sustainment, Ms Ellen Lord, announced that the F-35 Autonomic Logistics Information System (ALIS) will be replaced with a system called the F-35 Operational Data Integrated Network (ODIN). The United States F-35 JPO has confirmed that ODIN will deliver improved operational outcomes through the use of cloud-based technology, a government-managed integrated data environment, and user-centred applications. All partner nations will transition to the new integrated information system in a migration led by the F-35 Joint Program Office. The F-35 is a fifth generation platform that is designed to evolve. Improvements and upgrades to the logistics information system were already planned and Australia's extant budget includes funding for such upgrades.

Note

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

1.3 Project Context

Background

Project AIR6000 was established in 1999 to replace the air combat capabilities provided by the F/A-18A/B and F-111 fleets. In 2002, Government identified the Lockheed Martin F-35A JSF as the preferred option and joined the System Development and Demonstration (SDD) phase of the JSF Program as one of nine partner nations. At this time the project discontinued the competitive evaluation under AIR6000. The subsequent decision by Government to acquire the F-35A JSF has been taken progressively, including:

- Providing First Pass Approval in November 2006, which included agreement to join the next phase of the JSF Program and funded project AIR6000 Phase 1B to conduct detailed definition and analysis activities to support Government Second Pass Approval for AIR6000 Phase 2A/2B.
- Signing the multilateral Production, Sustainment and Follow-on Development (PSFD) Memorandum of Understanding (MoU) in December 2006 to allow entry into the next stage of the JSF Program.
- AIR6000 Phase 2A/2B Stage 1 Approval in November 2009 to acquire 14 CTOL F-35A JSF aircraft and associated support
 and enabling elements necessary to establish the initial training capability in the US, commencing in 2014, and to allow
 commencement of Operational Test in the US and Australia.
- AIR6000 Phase 2A/2B Stage 2 was approved by Government in April 2014 to acquire an additional 58 CTOL F-35A JSF aircraft and enabling elements. The combined acquisition of 72 aircraft will achieve FOC in 2023 comprising of three operational squadrons of fifth generation F-35A JSF to replace the F/A-18A/B Hornet aircraft.
- In 2017, Defence advised Government of emerging issues associated with AIR6000 Phase 2A/2B affordability. In 2018 and 2019, Government agreed to Defence proposals to defer elements of project scope to later, unapproved, AIR6000 program phases. The majority of these scope items were no longer needed, as FOC requirements will be met without major upgrades. Beyond Line of Sight Communications (BLOS) was only desirable and will now be delivered as a cost effective common capability rather than Australian unique. In conjunction with the retirement of cost risks within the project, this has remediated the cost issues identified to Government in 2017. These adjustments have also aligned Australian delivery schedules with the global JSF development program. While the approved changes have reduced the capability being delivered by Phase 2A/2B it has not increased or reduced funding, or the capability being delivered, in the broader AIR6000 program. As the changes have minimal impact on overall delivery schedule of the project, AIR6000 Phase 2A/2B plans for FOC in 2023 remain unchanged.

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Uniqueness

The JSF Program was established by the US Government as the first international collaborative development program for a US military aircraft. The program includes initial design, production, follow-on development and through life support of the JSF global fleet.

The JSF Program is expected to deliver over 3,000 aircraft to the MoU Partners (with the US to acquire approximately 75 per cent of the total) with the potential for significant additional aircraft procurements by Foreign Military Sales (FMS) customers.

The JSF is characterised by a low observable (stealth) design, internal weapons and fuel carriage, advanced electro-optical and infrared sensors (long range), the ability to employ a wide range of air-to-surface and air-to-air weapons, advanced communications suite to enable network centric operations, state of the art prognostics and health management, a single interchangeable engine and reduced support requirements.

Due to strict US export restrictions imposed on the JSF Air System, direct commercial sale is not permitted. JSF aircraft and associated supporting systems will be acquired by Australia under the PSFD MoU arrangements. Key factors are:

- The US Government has contracted with Lockheed Martin and Pratt & Whitney on Australia's behalf in accordance with US contracting laws, regulations and procedures.
- The F-35 Joint Program Office acquisition strategy is to commence with eleven annual Low Rate Initial Production (LRIP) contracts transitioning from a Fixed Price Incentive Fee to a Firm-Fixed Price at the appropriate time.
- Each contract requires a separate Partner Procurement Request (PPR) from each partner nation defining their requirements for that buy. PPRs are submitted two years ahead of contract and four years ahead of delivery.
- F-35A JSF Aircraft to be delivered under AIR6000 Phase 2A/2B are acquired under annual contracts. Lots 12 to 14 production
 procurements leverage off a Block Buy initiative, with Australia's commitment remaining on an annual basis. The Australian F35A JSF capability will be supported via an F-35 Global Support Solution that is progressively being implemented and a range
 of Australian sovereign sustainment contracts, with all arrangements planned to be performance-based.

As well as providing capability and programmatic benefits, a key aim of Australia's participation in the JSF Program is to embed Australian industry in the JSF global supply and support chain for the life of the JSF Program. The Commonwealth continues to work with the F-35 Joint Program Office as well as prime contractors Lockheed Martin and Pratt & Whitney, and their sub-contractors to achieve long term industry outcomes for Australia.

The New Air Combat Capability – Industry Support Program (NACC-ISP) was launched on 10 August 2011. In total, \$21.9 million (GST exclusive) was available to Australian businesses and research organisations to support development of new or improved capabilities that may enhance their ability to win work in production, sustainment and follow-on development phases of the F-35 Program. This program will have fully obligated all funds by end 2021. To date, over 50 Australian companies have, some with NACC-ISP support, directly shared in excess of \$2.7 billion in global F-35 contracts.

The Joint Strike Fighter – Industry Support Program (JSF-ISP) was launched on 9 December 2020 with initial funding of \$4m from Phase 2A/2B. JSF-ISP will assist with further industry opportunities, including component repair capacity workloads. The Cooperative Partnership will continue to progressively enhance the capability of the entire F-35A Air System over its life of type under the auspices of the Follow-on Modernisation program.

Major Risks and Issues

The F-35 Joint Program is large and complex with varying challenges. Delivery of Air Force's capability requirements may be affected by technical deficiencies, delay in delivery schedule, funding or programming issues, or delays in delivery of an effective training system. As a partner nation, Australia is also reliant on the international Cooperative Program through the Joint Program Office to develop and sustain the F-35 system and to develop the Global Support Solution. Australia's standing in the Cooperative Program may be compromised by security or cyber breaches. The project is also managing risks regarding industry, including realisation of economic benefits and the management of the workforce.

The primary issue that the project is addressing is the impact from COVID-19 to schedule and potentially to cost. It is affecting the supply chains and production efforts of the F-35 prime contractors Lockheed Martin and Pratt & Whitney, resulting in delays to delivery of aircraft and support elements. Travel restrictions are limiting the ability of US-based staff to install specialist equipment in Australia and for Australian and US staff to conduct verification and validation activities. The project is mitigating these with alternative plans, where possible, and otherwise monitoring the changes through regular communication. Another minor issue is the need for Air Force Maintainers to practice fitting Alternate Mission Equipment and loading dummy rounds using Air Vehicles instead of a training aid. Delivery of the Weapons Loading Trainer and Gun Module upgrades will resolve this issue in Q4 2021.

Other Current Related Projects/Phases

AIR JSF System Development and Demonstration (SDD) – Participation in the JSF SDD Program: In November 2018, Australia closed the Materiel Acquisition Agreement for AIR JSF SDD – Participation in the JSF System Development and Demonstration (SDD) Program, as all AIR JSF SDD financial milestones were completed. The US expects to formally complete the F-35 program SDD phase, following Operational Test and Evaluation and a Department of Defense decision to go into full-rate aircraft production.

AIR6000 Phase 5 - Air Combat Capability Air-to-Air Weapons: This project was approved by Government in March 2016 and will acquire reserve stocks of air-to-air Within-Visual-Range (WVR) and Beyond-Visual-Range (BVR) missiles for the Air Combat Capability including the F-35A Joint Strike Fighter.

AIR6000 Phase 3 - Air Combat Capability Air-to-Surface Weapons: This project was approved by Government in May 2018 and will acquire the reserve stocks of air to ground weapons, new countermeasures and ammunition for the F-35 Joint Strike Fighter.

Note

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

Section 2 – Financial Performance

2.1 F	2.1 Project Budget (out-turned) and Expenditure History						
Da	te	Description \$m Notes					
		Project Budget					
No	v 09	Original Approved (Government Second Pass Approval – Stage 1)	2,751.6				

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May 12 Sep 12 Jun 14	Real Cost Decrease Real Cost Increase Government Second Pass Approval – Stage 2	(204.4) 201.5 10,515.4	1 1 2
	Total at Second Pass Approval	13,264.1	
Apr 18 Jul 10 Jun 21 Jun 21	Real Variation – Transfer Price Indexation Exchange Variation Total Budget	(8.4) 351.0 <u>2,024.0</u> 15,630.7	3 4
	Project Expenditure		_
Prior to Jul 20	Contract Expenditure - US Government - LRIP 10 Production Contract Expenditure - US Government - LRIP 11 – Production Contract Expenditure - US Government (Block Buy Contract Production) Contract Expenditure - US Government - PSFD MoU (FY14/15 – 22/23)	(875.8) (878.9) (1,997.3) (359.9)	5 5 5, 6
	Contract Expenditure - US Government (Block Buy Contract Propulsion)Contract Expenditure - US Government - LRIP 10 Propulsion Contract Expenditure - US Government - LRIP 11 – Propulsion	(338.7) (139.1) (143.6)	5 5, 6 5 5
	Contract Expenditure - US Government - Reprogramming Laboratory Contract Expenditure - US Government - LRIP 8 - Production and Non- Annualised Sustainment	(114.2) (87.7)	5
	Contract Expenditure - US Government - LRIP 10 Non-Annualised		_
	Sustainment Contract Contract Expenditure - US Government - FMS Case AT-D-YAF, AT-P-	(115.7)	5
	AMN (Weapons)	(146.3)	5
	Contract Expenditure - US Government-LRIP11 - Non-Annualised Sustainment	(74.6)	5
	Contract Expenditure - US Government-LOT 12-14 IDIQ Contract Other Contract Payments / Internal Expenses	(3.6) (1200.2) (6,475.6)	5 7
FY to Jun 21	Contract Expenditure - US Government (Block Buy Contract Production)	(1,018.9)	5,6
	Contract Expenditure - US Government (Block Buy Contract Propulsion) Contract Expenditure - US Government PSFD MoU (FY14/15 - 22/23) Contract Expenditure - US Government - FMS Cases AT-D-YAF, AT-P-	(289.0) (121.1) (13.5)	6 5 5
	AMN (Weapons) Contract Expenditure - US Government - LRIP 11 Non-Annualised Sustainment	(52.2)	5
	Contract Expenditure - US Government - LRIP 11 - Production	(-1.9)	5 5
	Contract Expenditure - US Government - LRIP 10 Non-Annualised Sustainment	(78.9)	5
	Contract Expenditure - US Government - LRIP 11 - Propulsion Contract Expenditure - US Government – LOT 15 Production	(4.2) (21.7)	5
	Contract Expenditure - US Government - LRIP 10 Production	(1.6)	5
	Contract Expenditure - US Government - LOT 12-14 Indefinite Delivery Indefinite Quality (IDIQ)	(59.5)	5
	Contract Expenditure - US Government - Reprogramming Laboratory Contract Expenditure - US Government - LRIP 10 Propulsion	(6.9)	5 5
	Contract Expenditure - US Government - LRIP 8 - Production and Non-	(0.2) (10.7)	5 5
	Annualised Sustainment Other Contract Payments / Internal Expenses	(889.2)	8
Jun 21	Total Expenditure	(2,565.9) (9,041.4)	
Jun 21	Remaining Budget	(6,589.3)	
Notes			
1	A May 2012 budget adjustment (\$204.4m) was applied to AIR6000 interpretation of the Government's decision to vary the New Air Combat Car 2012, a budget adjustment correction was applied (\$201.5m), using an u project's total approved budget has remained the same as intended by Go	pability (NACC) Program. In Se pdated exchange rate. As a re	ptember
2	Government approved AIR6000 Phase 2A/2B Stage 2 in April F-35A JSF aircraft.	2014 for an additional 58	
3	Transfer to Estate and Infrastructure Group following request for funding Joint Strike Fighter facilities.		
4	Up until July 2010, indexation was applied to project budgets on a period approach was \$70.3m. In addition to this amount, the impact on the project		

5	The scope of this contract is explained further in Section 2.3 – Details of Project Major Contracts.
6	Previously reported as a single Block buy Contract that combined the expenditure of the Production and Propulsion.
7	Other expenditure for the period prior to July 2020 is associated with Mission Systems (\$509.2m) comprising of FMS cases, weapons & aircraft; Support Systems (\$365.4m) which comprises of software capability for the reprogramming lab, facilities, support and test equipment, spares, information communications technology and ALIS; Production Sustainment and the follow on development of a Memorandum of Understanding (\$180.9m) for the 2009-10 financial year through to the end of the 2013-14 financial year; Project Office services (\$58.0m) comprising of Project Office; NACC Operating Expenditure (\$82.8m) comprising of Project Office; NACC Operating Expenditure (\$82.8m) comprising of Project Office systems, initial support & maintenance, US pilot training and NACC ISP Grants Program; Non-standard mission system (\$3.9m) for the Ferry activities.
8	Other expenditure for the period July 2020 to June 2021 is associated with Support Systems (\$698.7m) comprising of software capability for the reprogramming lab, facilities, support and test equipment, spares, information communications technology, training simulators, spares and the ALIS; Mission Systems (\$153.4m) comprising of FMS cases, weapons and aircraft; Project Office services (\$15.3m) comprising of Project Office services (travel, contract support services) and contract administration in relation to the Joint Project Office NACC operating expenditure (\$18.7m) comprising of Project Office expenses, initial support and maintenance, US pilot training and the NACC ISP Grants Program; and non-standard mission system (\$3.1m) for the Ferry activities.

2.2A In-year Budget Estimate Variance								
Estimate	Estimate	Estimate	Explanation of Material Movements					
PBS \$m	PAES \$m	Final Plan \$m						
2,430.6	2,354.4	2,252.9	PBS – PAES:					
			During 2020-21, activities have continued as planned to support achievement of Initial Operational Capability, with some minor disruptions to the aircraft production schedule due to COVID-19. The variation is primarily due to foreign exchange updates.					
			PAES – Final Plan: The acquisition is as now forecast in 2021-22 PBS Rates.					
Variance \$m	(76.2)	(101.5)	Total Variance (\$m): (177.7)					
Variance %	(3.1)	(4.3)	Total Variance (%): (7.3)					

2.2B In-year Budget/Expenditure Variance

Estimate	Actual	Variance	Variance Factor	Explanation			
Final Plan \$m	\$m	\$m					
			Australian Industry	30 June 2021 - The variation is			
		316.7	Foreign Industry	primarily due to early achievement			
			Early Processes	of cooperative program			
		(3.7)	Defence Processes	deliverables associated with the air			
			Foreign Government	vehicle and engine. The project			
			Negotiations/Payments	also had a foreign exchange loss of			
			Cost Saving	approximately \$70m due to the			
			Effort in Support of Operations	additional cost of foreign exchange			
			Additional Government Approvals	payments as a result of the			
				depreciation of the Australian			
2,252.9	2,565.9	313.0	Total Variance	dollar which has also contributed.			
		13.9	% Variance				

2.3 Details of Project Major Contracts

		-				
	Signature	Price at		- (D' D ')	Form of	
Contractor	Date	Signature \$m	30 Jun 21 \$m	Type (Price Basis)	Contract	Notes
US Government PSFD MoU (FY 14/15 – 22/23)	Dec 06	253.1	768.7	Various	MoU	1, 9, 10
US Government (LRIP 10 Production)	Dec 14	79.2	902.8	Fixed Price Incentive	USG Contract	2, 9, 10
US Government (LRIP 10 Propulsion)	Mar 15	13.4	145.8	Fixed Price Incentive	USG Contract	3, 9, 10
US Government (Reprogramming Laboratory)	Mar 15	119.0	137.6	Fixed Price Incentive	USG Contract	4, 9, 10
US Government (LRIP 8 Production and Non- Annualised Sustainment)	Jun 15	99.9	123.2	Fixed Price Incentive	USG Contract	5, 9, 10
US Government (LRIP	Dec 15	88.2	917.1	Fixed Price Incentive	USG	6, 9, 10

11 Productio	nn)					Contract		
US Government (AT-D- YAF)		Jun 16	111.9	111.6	Reimbursement	FMS	9, 10	
US Government (LRIP 10 Non-Annualised Sustainment)		Jun 16	31.8	283.2	Various	USG Contract	9, 10, 13	
US Governm AMN)	nent (AT-P-	Jul 16	132.3	140.9	Reimbursement	FMS	9, 10	
US Governm 11 Propulsio		Jul 16	14.2	168.2	Fixed Price Incentive	USG Contract	9, 10, 12	
US Governm Buy Contract Production)	nent (Block	Feb 17	236.3	4,443.2	Various	USG Contract	7, 9, 10	
US Governm Buy Contract Propulsion)		Aug 17	39.6	842.9	Various	USG Contract	7,9, 10	
US Governm 11 Non-Annu Sustainment	ualised	May 18	57.5	186.0	Various	USG Contract	9, 10, 13	
US Governm 12-14 Indefir Delivery Inde Quantity)	nite	Jan 19	52.8	155.9	Various	USG Contract	9, 10, 14	
US Governm 15 Productio		Jan 20	125.3	113.5	Fixed Price Incentive	USG Contract	9, 10, 15	
Notes	,							
	annually to reflect both estimated shared costs and escalation. Contract Price increase since signature due to increased tooling replacement cost not previously included; inclusion of scope previously considered country unique; and updated estimates for shared sustainment, Follow-on Development and F-35 Joint Program Office administration. LRIP 10 Production contract for Australia's next tranche of eight F-35A aircraft for initial Long Lead items. This contract is progressively modified with approved work scope and forms the basis of the Air System contract for the complete system – per Section 1.3 'Uniqueness'. LRIP 10 Propulsion contract for eight engines for installation on Australia's next tranche of eight F-35A aircraft. This contract is progressively modified with approved work scope and forms the basis of the propulsion contract for the complete system – per Section 1.3 'Uniqueness'. Subsequent to full funding being awarded for this contract further modifications (contract changes) have occurred. These include: (1) Long Lead funding for LOT 12 (15 aircraft), (2)							
2	administrat LRIP 10 P contract is complete s LRIP 10 P contract is complete s modificatio initial spari	tion. roduction contr progressively n system – per Se ropulsion contra progressively n system – per Se ns (contract cha	act for Australi nodified with ap ction 1.3 'Uniqu ict for eight eng nodified with ap iction 1.3 'Uniqu anges) have oc	a's next tranche of pproved work scope jeness'. jines for installation op pproved work scope ueness'. Subsequen curred. These inclu	eight F-35A aircraft for initi and forms the basis of the A on Australia's next tranche o and forms the basis of the t to full funding being award	35 Joint Progr ial Long Lead i Air System cont if eight F-35A ai propulsion contu- led for this contu- or LOT 12 (15 a	am Office tems. This ract for the rcraft. This ract for the ract for the ract further ircraft), (2)	
3	administral LRIP 10 P contract is complete s LRIP 10 Pr contract is complete s modificatio initial spari data.	tion. Production contr progressively n system – per Se ropulsion contra progressively n system – per Se ns (contract cha ng for operating	act for Australi nodified with ap ction 1.3 'Uniqu ct for eight eng nodified with ap ection 1.3 'Uniq anges) have oc g units, mainten	a's next tranche of pproved work scope jeness'. jines for installation of pproved work scope ueness'. Subsequen courred. These inclu nance depots and the	eight F-35A aircraft for initi and forms the basis of the A on Australia's next tranche o and forms the basis of the t to full funding being award de: (1) Long Lead funding for e Global Pool and (3) the mi	35 Joint Progr ial Long Lead i Air System cont if eight F-35A ai propulsion contu- led for this contu- or LOT 12 (15 a	am Office tems. This ract for the rcraft. This ract for the ract for the ract further ircraft), (2)	
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12	LRIP 11 Propulsion contract for eight engines for installation on Australia's tranche of eight F-35A aircraft being procured through the LRIP 11 Production Lot. This contract is progressively modified with approved work scope and forms the basis of the propulsion contract for the complete system – per Section 1.3 'Uniqueness'.							
13	LRIP 10 and 11 Non-Annualised (NA) Sustainment contracts consist of one-time tasks and infrastructure stand up activities. The contracts undergo discrete modifications for each individual good and/or service being procured which in turn dictates the type' of contract. The majority of each discrete procurement is acquisition related, examples being initial non-aircraft spares, site activation, depot stand-up, hardware procurement and delivery, training systems, support equipment and ALIS.							
14	Support equipment and ALIS. FY19-20 Air Vehicle Initial Spares, Lot 12 - 14 Generation III Heavy Helmet Mounted Display Systems (GEN IIIH HMDS) and Lot 13 - 14 Ancillary Mission Equipment (AME) and Pilot Fit Equipment (PFE) have been placed on the Lockheed Martin Indefinite Delivery Indefinite Quantity (IDIQ) contract. The IDIQ contract allows flexibility in both quantities and delivery scheduling and allow the ordering of supplies and goods to be delayed until after requirements materialise. The JPO have stated that placing Spares, AME and PFE requirements on the IDIQ contract allows for more agile procurement for F-35 Enterprise, aligning delivery schedule with aircraft deliveries.							
15	procurement of nine F-35A	aircraft. The pur	pose of EOQ fund	Order Quantity (EOQ) funding associated ding is to allow for the procurement of extra aft by taking advantage of economy of scale	-long lead			
a		1	Quantities as at					
Contractor		Signature	30 Jun 21	Scope	Notes			
US Governm	nent (PSFD MoU)	N/A	N/A	Australia's contribution to shared costs from 2010 to 2023 based on the purchase of 100 aircraft. Includes contribution to production tooling, US overhead cost of running program, follow on development and shared sustainment activities.	1			
US Governm	nent (LRIP 10 Production)	8	8	Procurement of Advanced Acquisition items associated with the next eight F- 35A aircraft procurement.				
US Governm	nent (LRIP 10 Propulsion)	8	8	Procurement of Advanced Acquisition items and spares associated with propulsion systems for the next eight F- 35A aircraft procurement. This contract has also been modified to include Long Lead items to support Lot 12 aircraft.				
US Governm Laboratory)	nent (Reprogramming	N/A	N/A	Reprogramming Laboratory Hardware and Software tools.				
	nent (LRIP 8 Production nualised Sustainment)	N/A	N/A	Training devices, support equipment and non-aircraft spares.				
US Governm	nent (LRIP 11 Production)	8	8	Procurement of Advanced Acquisition items associated with the next eight F- 35A aircraft procurement.				
US Governm	nent (AT-D-YAF)	N/A	N/A	Procurement of Small Diameter Bombs (SDB 1) and associated racks.				
US Governm	nent (AT-P-AMN)	N/A	N/A	Procurement of Radio Frequency Countermeasures.				
US Governm Production)	nent (Block Buy Contract	N/A	45	Procurement of Long Lead items and Economic Order Quantities for Lots 12- 14, with full funding contract awarded in Quarter 4 2019, for procurement of 45 F-35A aircraft.	2			
	nent (FY17 Air Vehicle s & ACURL Spares)	N/A	N/A	F35 global spares pool, Deployable Spares Pack and spares for the Reprogramming Lab.				
US Government (Block Buy Contract Propulsion)		N/A	45	Procurement of Long Lead items for Lots 12-14, with full funding contract awarded in Quarter 4 2019, for procurement of 45 F135 propulsion systems.	2			
US Governm	nent (LRIP 11 Propulsion)	8	8	Procurement of propulsion systems required for the eight F-35A aircraft being procured through the LRIP 11 Production Lot.				
	nent (LRIP 10 Non- Sustainment Contract)	N/A	N/A	Procurement of initial non-aircraft spares, site activation, depot stand-up, hardware procurement and delivery, training systems, support equipment				

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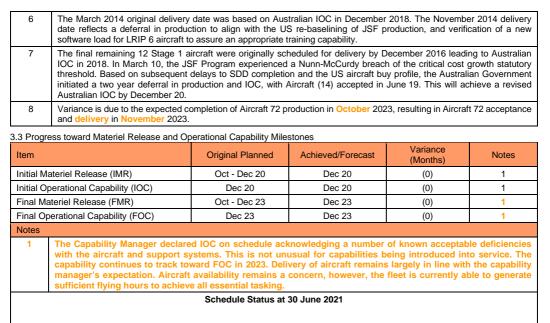
				and ALIS.			
US Government (LRIP 11 Non- Annualised Sustainment)		N/A	N/A	Procurement of initial non-aircraft spares, site activation, depot stand- up, hardware procurement and delivery, training systems, support equipment and ALIS.			
	ment (Lot 12-14 Indefinite definite Quantity)	N/A	N/A	Procurement of Lot 13-14 Ancillary Mission Equipment and Pilot Fit Equipment and HMDS Spares, Lots 12- 14 Helmet Mounted Display System (HMDS), and FY 19-20 Air Vehicle Spares.			
US Govern	ment (Lot 15 Production)	N/A	N/A	Procurement of Advanced Acquisition items associated with the next nine F- 35A aircraft procurement.			
Major equip	oment accepted and quantities	to 30 June 21					
Forty F-35/	A aircraft have been received	by Australia.					
Notes							
1 N	No equipment delivered as part of this contract.						
2 T	These contracts were previous	ly reported as Lot ?	12 Long Lead a	and EOQ.			

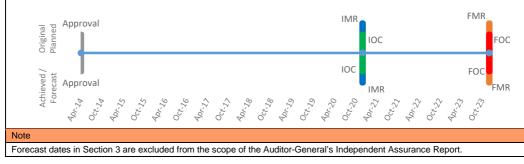
Section 3 – Schedule Performance

3.1 Design Review Progress

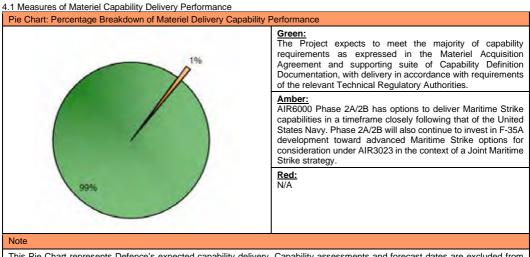
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Review		Major System/Platform Variant	Original Planned	Current Contracted	Achieved /Forecast	Variance (Months)	Notes	
Preliminary Design		JSF Air System (CTOL Variant)	Mar 03	N/A	Jul 03	4	1	
Critical Design		JSF Air System (CTOL Variant)	Apr 04	Feb 06	Feb 06	22	2	
Notes	Notes							
1	Aircraft weight was the major issue that delayed the closure of the Preliminary Design Review (PDR) by four months.							
2								

3.2 Contra	actor Test ar	nd Evaluation Progress		0	0		
	Test and Major System/Platform Variant		Original Planned	Current Contracted	Achieved/F orecast	Variance (Months)	Notes
System Integration		Block 2B Fleet Release (against IMS7 Baseline)	Jun 15	Jun 15	Jul 15	1	1
		Block 3i Initial Release to support LRIP 6 (against IMS7 Baseline)	Mar 14	Nov 14	Sep 14	6	2
		Block 3F Fleet Release (against IMS7 Baseline) – for F-35A (full envelope with weapons)	Aug 17	Oct 17	Aug 17	0	3, 4, 5
Accepta	nce	Accept and deliver two (LRIP 6) aircraft to US Pilot Training Centre	Mar 14	Nov 14	Nov 14	8	6
		Accept and deliver aircraft 3-14	Dec 16	Jun 19	Jun 19	30	7
		Accept and deliver aircraft 15-72	Dec 23	Sep 23	Nov 23	(1)	8
Notes							
1	Block 2B	supported the United States Marine Corps IC	OC declaration	which occurre	d on 31 July 2	015.	
2	variance v	nitial Release software provides initial pilot tra was due to delays in earlier software delive re delivered in LRIP 6 aircraft.					
3	F-35 aircraft software is developed and released in capability blocks. Block 3F software is the final release under the System Development and Demonstration (SDD) phase of the program and is the requirement for Australian IOC declaration. It is noteworthy; all Block 3F software is developed to support full Australian weapons requirements, where Australia's weapons approval is dependent on US and Australian clearances.						
4	Block 3F software was fleet released August/October 2017 onto late LRIP 9 US and Partner aircraft. Fleet release dates indicate software has finished development, while the release of partner nation specific loads follows with minor adjustments to meet sovereign requirements. The priority for the release of partner specific loads is driven by a nation's aircraft delivery schedules.						
5	Bed Down	accepted its first three Block 3F aircraft Marc Plan, was delayed to remediate non-softwa (or later) configuration.					





Section 4 - Materiel Capability Delivery Performance



This Pie Chart represents Defence's expected capability delivery. Capability assessments and forecast dates are excluded from

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	nd Operational Capability Milestones	A als increases and
Item	Explanation	Achievement
Initial Materiel Release (IMR)	Acceptance and delivery of 33 aircraft to RAAF Base Williamtown between 2018 and 2020 to support Australian V&V and stand-up of No.3 Squadron (SQN) and No.2 Operational Conversion Unit (20CU); 3SQN facilities fully fitted, accredited, staffed and ready to support flying operations.	Achieved
	Materiel delivery, V&V, training, support and transition activities required for IOC completed. IMR was achieved in December 2020.	
Initial Operational Capability	The JSF system shall be capable of performing and sustaining one squadron capable of Defensive Counter Air (DCA), and Offensive Counter Air (OCA) roles (though not concurrently) for a 30 day period. The JSF system shall be deployable to Forward Operating Bases within Australia and Overseas. Aircraft are available to support the start of pilot training in Australia. Initial Operational Capability was achieved in December 2020.	Achieved
Final Materiel Release (FMR)	Delivery of final aircraft between 2021 and 2023, resulting in all 72 F-35A aircraft in Australia. All aircraft will be upgraded in accordance with the Continuous Capability Development and delivery (C2D2) plan (noting that this is an ongoing program of capability enhancement). Delivery and acceptance, commissioning or contracting in Australia of the aircraft, spares, support systems, and personnel, training, weapons, equipment, contracts and facilities necessary for ongoing operations of three Operational Squadrons and one training Squadron at FOC. Materiel delivery, V&V, training, support and transition activities required for FOC completion. FMR is expected to be achieved December 2023.	Not yet achieved
Final Operational Capability	The JSF system shall be capable of performing and sustaining three operational squadrons and one training squadron, as per strategic and capability guidance. FOC is expected to be achieved in December 2023.	Not yet achieved

Section 5 – Major Risks and Issues

5.1 Major Project Risks

Identified Risks (risk identified by standard project risk management processes)			
Description	Remedial Action		
The F-35A capability may be impacted by failure to deliver air system elements to meet the capability requirements of Air Force as a result of a technical deficiency or a delay in delivery schedule. F-35A air system elements include aircraft/engine, weapons, Autonomous Logistics Information System (ALIS) system, reprogramming enterprise and the training system.	AIR6000 Phase 2A/2B has established a risk management framework to ensure that any risks to establishing a credible air combat capability are identified and resources can be allocated to mitigate these risks to ensure they do not impact the system which is being delivered. The air system elements are monitored and controlled within the integrated master schedule and the Project Performance Review process. The inclusion of Cooperative Partner Personnel positions within the Joint Program Office will give Australia early insight into emergent potential issues. The Capability Manager is a key informed stakeholder in this process which will ensure the systems being delivered will meet Air Forces evolving capability needs.		
The Australian F-35 capability relies on a cohesive Joint Strike Fighter Cooperative Program to develop and sustain the F-35 system. Significant changes to the program organisation may impact Australia's and the F-35 Partners' ability to influence the program.	Defence will maintain cohesive working relationships with enterprise stakeholders, maintain Government to Government engagement in the program, and continue to engage in multilateral and bilateral discussions with F-35 partners. Australia will continue representation at strategic fora and where appropriate take the lead on influencing the F-35 Partners with the F-35 JPO and any future F-35 sustainment organisation.		

The Australian F-35A sustainment solution may be impacted by the Joint Program Offices (JPO) ongoing development and	The F-35 Lightning II Program has not yet reached Full Rate Production but is simultaneously executing Development,
evolution to a mature and effective Global Support Solution (GSS), leading to an impact on Australia's sustainment performance.	Production and Sustainment lines. The F-35 GSS performance is currently lower than anticipated but is still maturing and developing. AIR6000 Phase 2A/2B and Air Combat Systems Program Office will continue to provide feedback on the GSS performance at F-35 JPO governance fora to make it effective for the Australian F-35 capability.
Australia's standing and reputation in the international F-35 co- operative partnership may be compromised due to security or cyber breaches leading to potential disclosure of sensitive information to potential adversaries.	AIR6000 Phase 2A/2B will continue to train, practice and promote efficient application of security policy, practices and procedures across the physical, information and personnel security domains and ensure that effective and appropriate mitigations are deployed to address any identified issues. Robust security compliance assurance control activities are continually conducted within Defence and our broader industry partners. In addition to the promotion and enforcement of the Defence Industry Security Program, engagement continues with Defence and Government cyber security agencies to develop an Information and Communications Technology Protection Program which would assist our industry partners.
Acquisition and operation of the F-35A capability may be affected by overall funding or programming issues arising from internal cost growth / forecasting inaccuracy, production cost increases, future development of the common reprogramming laboratory and COVID-19; leading to an impact on capability and schedule.	AIR6000 Phase 2A/2B will conduct on-going engagement with the F-35 Joint Program Office and major project suppliers to facilitate improved cost data to allow the F-35 project to meet budgeting and programming expectations along with proactive management of cost risk identification and engagement with the Capability Manager to prioritise requirements to deliver project capability within the approved project budget.
The required Australian industry benefit may not be realised, or may be delayed, resulting in a reduced advantage to the Australian economy and causing reputational damage to Defence and Government. Australian industry may not be able to meet Global Support Solution (GSS) performance, cost or schedule requirements. Australian industry assignment MRO&U activation may impact on the performance outcomes of F-35 GSS.	AIR6000 Phase 2A/2B will conduct coordinated activities with Defence Industry Division and maintain the close working relationship with Centre for Defence Industry Capability. The project will continue to use the grants program to provide financial support for industry capacity and capability growth, and AIR6000 Phase 2A/2B advocacy on behalf of Australian Industry with Joint Program Office, United States Prime Contractors and Original Equipment Manufacturers.
Failure to effectively employ and manage the Military, Government employee and supporting Defence Industry workforce may impact the effectiveness and efficiency of the Australian F-35A program.	The JSF Integrated Project Team conducts a comprehensive review of its Workforce Plan quarterly. This plan feeds into the CASG Total Workforce Model to ensure the right balance of APS, permanent Air Force personnel and reserves that will generate a built-in resilience in key operational areas. Resource planning working groups have been set up to address niche or nascent capabilities to ensure sufficient attention is given to addressing workforce fragility. Where appropriate a skilled contractor workforce will be engaged to provide surety of capability delivery. Regular engagement of RAAF personnel management, APS recruitment agencies and industry partners enables the program to be responsive to issues, across the total workforce, and address deficiencies in a timely manner.
The capability requirements for an integrated fifth generation Air Force may be impacted due to delays in delivery of an effective training system. This may include service release of training devices and equipment, workforce provisioning and contractual arrangements resulting in possible delays to capability outcome declarations.	The JSF Training System is evolving and work continues with the key stakeholders on understanding the capabilities and aligning expectations. Additional personnel have been engaged to deliver the Australian Training System and the associated support contracts. Influential representation by Defence at critical and essential F-35 JPO meetings and Periodic Technical Interchange Meetings with Lockheed Martin will burn-down the risk through persistent and consistent education.
Emergent Risks (risk not previously identified but has emerged du	
Description	Remedial Action
N/A	N/A
5.2 Major Project Issues	
Description	Remedial Action

Description	Remedial Action
COVID-19 is affecting the supply chains and production efforts of the F-35 prime contractors Lockheed Martin and Pratt & Whitney, resulting in delays to delivery of aircraft and support elements. Travel restrictions are limiting the ability of US-based staff to install specialist equipment in Australia and for Australian and US staff to conduct verification and validation activities.	The project is mitigating these delays with alternative plans where possible and otherwise monitoring the changes through regular communication.
The upgrade of the Weapons Loading Trainer to the 3.2 and 3.2.1 configurations was affected by delays in contracting,	Until the Weapons Loading Trainer upgrade is fully delivered, Air Force maintainers are required to practice

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	loading of Alternate Mission Equipment/dummy weapons to external Air Vehicle wing mounting points and to undertake load and maintenance training on an Air Vehicle gun.
Note	

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

Section 6 – Lessons Learned

Description		
JSF is a complex program that requires a robust Program Management framework to be established early in the life of the program lifecycle.	Governance	
JSF is a collaborative program that requires active engagement to ensure national requirements are met.		
JSF Production, Sustainment and Follow-on Development Memorandum of Understanding is run by the Joint Program Office and it is difficult to predict cost, schedule and associated budgeting impact on ADF processes and procurement.	Governance	
Integration of JSF into ADF systems of systems has been underestimated.	Requirements Management	
The collaborative environment of the JSF program introduces additional stakeholder complexity due to the engagement of the nine partner nations.	Governance	
Allowing industry to come up with innovative solutions, without the Commonwealth being too prescriptive in requirements definition, can provide improved outcomes. Through the Turbine Engine Maintenance Facility negotiations TAE came up with a proposal to renovate a disused Masters hardware facility rather than building a new facility on a green field site. This resulted in significant schedule reduction.		
The disadvantages of conducting staged facility handover / takeover (HOTO) activities outweigh the advantages. Traditional HOTO activities should be conducted.	Requirements Management	
Having a dedicated ICT SME team (CIOG) embedded within the Project Office was a significant contributor to reducing ICT risks.	Requirements Management	
The ongoing sustainment costs of ICT intensive projects is expensive - hardware refresh, software licensing, upgrades, personnel (administrators) - and cannot be underestimated.	Requirements Management	

Section 7 – Project Line Management

7.1 Proje	ect Line I	Management	as at	30	June	2021
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Position	Name
Division Head	AVM Greg Hoffmann
Branch Head	AIRCDRE Damien Keddie