



ASX Announcement

Australian Defence Force Novel Engine Project Update

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Highlights:

A3D has completed the first phase, engine design freeze; under the Australian Defence Force Contract awarded in December 2024.

Hardware is now being printed for initial test and development phase of the program.

Successful completion of this phase represents a major step towards sovereign production of an affordable, 3D-printed propulsion system for Defence applications.

Aurora Labs Limited (“A3D” or “the Company”) (ASX Code: A3D) is pleased to update shareholders on the significant progress made on the Australian Department of Defence (ADF) contract for a novel propulsion system targeting low fuel consumption, addition of further printed components (including our AU2 and AU4 products), and using Ti-5 printing materials for critical components.

Building on the momentum and award of the \$319,000 Defence innovation contract, the Company has reached the critical design freeze milestone for a next generation propulsion system. This achievement not only underscores A3D’s technical excellence but also marks a significant strategic step forward in advancing the Company’s understanding of printed propulsion systems, while fulfilling key contractual deliverables.

As stipulated under Milestone 1 of the Contract, the design phase includes:

- Completion of engine design engineering
- Establishment of a test cell with integrated sensor systems
- Procurement of long lead manufacturing items

Aurora Labs has satisfied the procurement obligations and has conducted comprehensive design activities, including internal reviews, and engineering analysis of modelled designs through computational optimisation and performance analysis.

In accordance with the contract requirements, a formal Design Review involving Commonwealth Government representatives' specialists has been completed, to formally confirm the design parameters.

Aurora Labs has successfully completed initial additive manufacturing printing trials on the complex engine geometry. Early results have achieved density levels between 99.6% and 99.8% for printed components, highlighting the capability of the Company's Laser Powder Bed Fusion (LPBF) print technology for producing high-integrity, mission-specific aerospace components. In producing this geometry, A3D is increasing its understanding of local, sovereign capability to deliver complex aerospace components, which are not currently manufactured in Australia.

This update demonstrates that A3D is progressing in accordance with the project schedule. Following this milestone, we will proceed immediately to fabrication and testing activities, leading towards validation trials as outlined in Milestones 2 and 3 respectively.



Printed Engine Parts in the Printing Chamber

In addition to the Company's existing portfolio of Micro Gas Turbine propulsion systems (AU2 and AU4 models), A3D remains committed to delivering an innovative sovereign 3D printed propulsion engine solution capable of supporting unmanned aerial systems and unmanned aerial vehicles (UAS, UAV's) and Defence applications, consistent with the broader aims of Australian Defence Force strategic initiatives and is closely aligned with the Australian Government's emphasis on fostering innovation, enhancing workforce skills, and advancing additive manufacturing technologies within the sector.

The development of sovereign propulsion capabilities, such as the leading edge A3D novel engine, supports the objectives outlined in the Australian Guided Weapons and Explosive Ordnance (GWEO) Plan, which aims to bolster domestic missile manufacturing and long-range strike capabilities. Furthermore, this initiative complements Australia's commitments under AUKUS Pillar 2, which focuses on the development of advanced capabilities including hypersonic and counter-hypersonic technologies, electronic warfare, and autonomous systems. By investing in these areas, the government seeks to enhance the Australian Defence Force's ability to defend the nation and its interests, while also contributing to regional stability and security.



Aurora Labs CEO, Rebekah Letheby, said: “We are extremely proud of the progress made under this groundbreaking project. Achieving the design freeze phase marks a major technical achievement and validates the power of our advanced additive manufacturing technologies.

We remain focused on delivering a sovereign propulsion solution for Defence, showcasing Aurora’s capacity for innovation, rapid development, and sovereign capability contribution.”

Importantly, A3D retains all intellectual property and commercialisation rights to the novel propulsion system.

Next Steps

- Complete the manufacture of component, utilising A3D L-PBF printing
- Generating a suite of ground test activities to confirm performance criteria

Further updates will be provided to the market as major contractual milestones are achieved.

Ends

ASX CODE: A3D
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Approved for release by the Company’s Board of Directors.
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ABOUT AURORA LABS

Aurora Labs Limited (“the Company”) an industrial technology and innovation company that specialises provision of 3D metal printed parts for Defence, Oil and Gas, and Resources applications, additively manufactured propulsion systems, and the development of 3D metal printers and associated intellectual property.

Aurora Labs is listed on the Australian Securities Exchange (ASX: A3D)

FORWARD LOOKING STATEMENTS

This announcement contains forward-looking statements which incorporate an element of uncertainty or risk, such as ‘intends’, ‘may’, ‘could’, ‘believes’, ‘estimates’, ‘targets’ or ‘expects’. These statements are based on an evaluation of current economic and operating conditions, as well as assumptions regarding future events.

These events are, as at the date of this announcement, expected to take place, but there cannot be any guarantee that such events will occur as anticipated or at all given that many of the events are outside Aurora’s control.

Accordingly, Aurora and the directors cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this announcement will actually occur. For further information, please contact: enquiries@auroralabs3D.com