

FOR APPROVAL

CONFIDENTIAL

IN CAMERA

TO: Academic Board

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DATE: September 24, 2015 for October 1, 2015

AGENDA ITEM: 16

ITEM IDENTIFICATION:

Capital Project: Report of the Project Planning Committee for the High Pressure Combustion Research Facility, University of Toronto Institute for Aerospace Studies, Faculty of Applied Science and Engineering – Total Project Cost and Sources of Funding

JURISDICTIONAL INFORMATION:

Pursuant to section 4.2.3. of the Committee’s terms of Reference, “...the Committee considers reports of project planning committees and recommends to the Academic Board approval in principle of projects (i.e. space plan, site, overall cost and sources of funds).”

Under the *Policy on Capital Planning and Capital Projects*, “...capital projects over \$3 million and up to \$10 million will be considered by the Planning and Budget Committee for projects at the St. George campus and recommended to the Academic Board...It is expected that such projects will be placed on the [Academic] Board’s consent agenda and be confirmed by the Executive Committee of the Governing Council.”

GOVERNANCE PATH:

A. Project Planning Report – Project Scope, Total Project Cost, and Sources of Funding

1. Planning and Budget [for recommendation] (September 17, 2015)
2. **Academic Board [for approval] (October 01, 2015)**
3. Executive Committee [for confirmation] (October 21, 2015)

B. Execution of the Project

1. Business Board [for approval] (September 21, 2015)

PREVIOUS ACTION TAKEN:

This High Pressure Combustion Research Facility (HPCRF) project at University of Toronto Institute for Aerospace Studies (UTIAS) is the result of a successful Canadian Foundation for Innovation (CFI) / Ontario Research Fund (ORF) application made in the 2012 round of Faculty of Applied Science and Engineering (FASE) submissions and awarded in 2013. Design work has been in progress since late 2013, following CaPS approval in November, 2013, to proceed with consultant selection and preliminary design. An increase in design fees was approved by CaPS in March, 2015. Recently estimated at a Total Project Cost over \$3 million, the project is being brought forward through governance for approval.

HIGHLIGHTS:

Discussion of the space plan can be found in the open session document for this project “Capital Project: Report of the Project Planning Committee for the High Pressure Combustion Research Facility, University of Toronto Institute for Aerospace Studies, Faculty of Applied Science and Engineering”, item 6, for this meeting.

FINANCIAL AND PLANNING IMPLICATIONS:

a) Total Project Cost

The total estimated project cost for the High Pressure Combustion Research Facility, University of Toronto Institute for Aerospace Studies, Faculty of Applied Science and Engineering is \$4,099,957.

To date, the expenditure of up to \$470,434 in design fees, included in the Total Project Cost, has been approved.

b) Funding Sources

The funding sources for the project include: \$1,949,979 in Canadian Foundation for Innovation (CFI) funds, \$1,949,978 in Ontario Research Fund (ORF) funds and \$200,000 of Faculty of Applied Science and Engineering (UTIAS) Operating Funds.

c) Operating Costs

The current annual operating costs at UTIAS are \$180/nasm, paid for by the Faculty of Applied Science and Engineering. There will be an increase in electrical operating costs for the building directly related to the utilization of the major new experimental equipment but at this point it is not possible to estimate what that change will be as the equipment selection is not yet final, nor is the duration of running the experiments known. However, the equipment will be operated at off-peak hours to mitigate the cost of electricity used and operating costs will continue to be paid for by FASE.

RECOMMENDATIONS:

Be It Resolved:

THAT, subject to confirmation by the Executive Committee

THAT the project scope to accommodate the High Pressure Combustion Research Facility Renovation of 188 net assignable square metres (nasm) at a total project cost of \$4,099,957, to be funded as follows, be approved in principle:

Canadian Foundation for Innovation (CFI) funds	\$1,949,979
Ontario Research Fund (ORF) funds	\$1,949,978
Faculty of Applied Science and Engineering (UTIAS) Operating Funds	\$ 200,000
Total	\$4,099,957

DOCUMENTATION PROVIDED:

- Report of the Project Planning Committee for the High Pressure Combustion Research Facility, University of Toronto Institute for Aerospace Studies, Faculty of Applied Science and Engineering, dated August 26, 2015.