

AGENDA ITEM BRIEFING

Submitted by: Michael K. Young, President
Texas A&M University

Subject: Approval of the Revised Project Scope and Budget, Appropriation for Construction Services, and Re-approval for Construction for the Aerothermochemistry Lab Expansion Project, Texas A&M University, College Station, Texas (SSC Project No. 2017-02079)

Background and Prior Actions:

The Aerothermochemistry Lab Expansion Project was included on the FY 2019 – FY 2023 A&M System Capital Plan and approved by the Board of Regents (board) at the August 2018 meeting. The project scope and current \$5,000,000 budget was approved by the board at the November 2018 meeting and the project was approved for construction. In addition, per System Policy 51.04, *Delegation of Authority on Construction Projects*, Section 4, an additional \$378,000 was appropriated to complete the scope as approved in the November 2018 Minute Order.

Proposed Board Action:

- (1) Approve an \$830,000 increase to the current approved project budget of \$5,000,000 as follows:
 - a. \$378,000 to complete the project scope and finish out second floor space for a laboratory and faculty/research associate office space.
 - b. \$452,000 to design and construct a 1400 square foot Light Detection and Ranging (LIDAR) laboratory onto the East side of the new facility and construct three additional offices in the second floor space.
- (2) Appropriate \$830,000 for construction services and related project costs. \$5,000,000 has been previously appropriated.
- (3) Approve construction of the Aerothermochemistry Lab Expansion Project at Texas A&M University (Texas A&M).

Funding/Budget Amount:

<u>Funding Source</u>	<u>Project Budget</u>	<u>Proposed Adjustment</u>	<u>Proposed Budget</u>	<u>Average Estimated Annual Debt Service</u>	<u>Debt Service Source</u>
Cash – Governor’s University Research Initiative (GURI)	\$2,500,000	\$415,000	\$2,915,000	N/A	N/A
Cash – Chancellor’s Research Initiative (CRI) – AUF	<u>\$2,500,000</u>	<u>\$415,000</u>	<u>\$2,915,000</u>	N/A	N/A
Total Project Funds	<u>\$5,000,000</u>	<u>\$830,000</u>	<u>\$5,830,000</u>		

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Justification:

Dr. Richard Miles, Professor of Aerospace Engineering and Texas A&M Engineering Experiment Station (TEES) Eminent Professor, will establish and lead a center in interdisciplinary optical and laser detection systems for national security and safety at Texas A&M. Dr. Miles was recruited as part of the Governor's University Research Initiative (GURI), an effort to bring nationally recognized researchers to Texas institutions of higher education. A new laboratory addition is currently under construction to support the numerous research thrusts overseen by Dr. Miles.

Scope:

Additional funds have been made available due to a re-prioritization of needs associated with Dr. Miles' GURI award. The Governor's Office has approved the requested changes and funds are currently available to build-out the shell space on the second floor of the new Aerothermochemistry facility currently under construction at the Texas A&M wind tunnel complex. The completion of the second floor was included as Alternate #1 in the original construction documents and was part of the original project scope; however, funds were not available for the alternate during the bid. The second floor shell space to be finished out under Alternate #1 includes a laser laboratory plus faculty and research associate office spaces.

The second floor will be the main entry for the National Aerothermodynamics and Hypersonic Laboratory (NAL) that adjoins the new building. The build-out of the second floor is a priority for the completion of the construction and for the utility of the building. The total estimated cost for the second floor build-out is \$378,000.

Additionally, funds are now available to construct an adjacent LIDAR laboratory and three additional offices in the second floor space. The building foundation for this laboratory was designed and constructed as a part of the original building construction. The LIDAR laboratory will be a one-story laboratory with a small roof dome that can be opened, enabling a laser to be fired directly up into the atmosphere for testing of new LIDAR capabilities. In addition to the LIDAR lab, three additional offices will be constructed within the second floor office space in addition to those in the original scope. The total estimated cost for the design and construction of the LIDAR laboratory and three offices is \$452,000.

Other Major Fiscal Impacts:

None.

Strategic Plan Imperative(s) this Item Advances:

Approval of this agenda item will advance the strategic imperative of increasing the A&M System's prominence by further enhancing a robust and targeted research portfolio in hypersonics.

TEXAS A&M UNIVERSITY

Office of the President

December 9, 2019

Members, Board of Regents
The Texas A&M University System

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I recommend adoption of the following minute order:

“The additional project scope and budget of \$830,000 for the Aerothermochemistry Lab Expansion Project is approved.

The amount of \$415,000 is appropriated from Account No. 02-405261-00006 GURI Construction – Miles, and \$415,000 is appropriated from Account No. 02-292115-00006 CRI/GURI Construction - Miles, for construction services and related project costs.

The additional scope and budget for the Aerothermochemistry Lab Expansion Project, Texas A&M University, College Station, Texas, is approved for construction.”

Respectfully submitted,

[ORIGINAL SIGNED BY]

Michael K. Young
President

Approval Recommended:

[ORIGINAL SIGNED BY]

John Sharp
Chancellor

Approved for Legal Sufficiency:

[ORIGINAL SIGNED BY]

Ray Bonilla
General Counsel

[ORIGINAL SIGNED BY]

Billy Hamilton
Deputy Chancellor and
Chief Financial Officer

AEROTHERMOCHEMISTRY LAB EXPANSION	PROJECT BUDGET
TEXAS A&M UNIVERSITY	
SSC PROJECT NO. 2017-02079	

1. Building Construction (CSP).....	\$4,718,014
2. Electrical Feeder Relocation (CSP).....	\$ 374,523
3. Construction Contingency	\$ 24,000
4. Architect/Engineer.....	\$ 405,463
5. Asbestos/Lead Survey	\$ 500
6. Environmental System Balance.....	\$ 20,000
7. Independent Testing	\$ 20,000
8. IT/Telecom	\$ 86,000
9. Campus Services/UES Support	\$ 11,500
10. SSC Contract Administration @ 3.0%	<u>\$ 170,000</u>
11. TOTAL ESTIMATED COST OF PROJECT	<u>\$5,830,000</u>

1. A/E Notice to Proceed/Design Kickoff MeetingMay 12, 2017
2. Execute A/E AgreementMay 23, 2017
3. Complete Schematic Design.....August 31, 2017
4. Complete Design Development.....January 12, 2018
5. Complete Construction Documents.....April 25, 2018
6. Advertise for CSPs.....August 16, 2018
7. Project Added to FY2020 Capital PlanAugust 16, 2018
8. Issue Request to Change to Fiscal Year to FY2019 September 3, 2018
9. Receive CSPs..... September 6, 2018
10. CSP Evaluation..... September 6, 2018
11. Campus Approval of Ranked OrderSeptember 13, 2018
12. Receive Authorization to Change from FY2020 to FY2019September 24, 2018
13. BOR Approval for Construction.....November 15, 2018
14. Issue Construction Notice to Proceed.....December 7, 2018
15. Partial Substantial Completion - Original Scope..... December 2019
16. Owner Occupancy - Original Scope.....January 2020
17. Partial Substantial Completion- Added Scope.....May 2020
18. Owner Occupancy – Added Scope.....May 2020



AEROTHERMOCHEMISTRY LAB EXPANSION

Texas A&M University

SSC Project No. 2017-02079