Agenda Item No. 3.4

AGENDA ITEM BRIEFING

Submitted by: Thomas D. Williams, Interim President
Texas A&M University

Subject: Approval to Amend the FY 2026 – FY 2030 A&M System Capital Plan to Add the Cyclotron Institute Expansion Project for Texas A&M University with an FY 2026 Start Date and Appropriate Funding for Pre-Construction Services (Project No. 02-3470)

Proposed Board Action:

(1) Amend the approved FY 2026 – FY 2030 A&M System Capital Plan to add the Cyclotron Institute Expansion Project for Texas A&M University (Texas A&M) with an FY 2026 start date and a total planning amount of $28,100,000.

(2) Appropriate $2,810,000 for pre-construction services and related project costs, contingent upon the award of the Texas Space Commission grant.

Funding/Planning Amount:

Funding Source	Planning Amount	Average Estimated Annual Debt Service	Debt Service Source
Texas Semiconductor Innovation Fund Award (Grant)	$13,000,000	N/A	N/A
Texas Space Commission Award (Grant)	$10,000,000	N/A	N/A
Cash (Designated Tuition)	$3,000,000	N/A	N/A
Cash (Investment Earnings)	$1,000,000	N/A	N/A
Cash (Indirect Cost Recoveries)	$1,000,000	N/A	N/A
Cash (Designated Research Revenue)	$100,000	N/A	N/A
Total Project Cost	$28,100,000		

Project Justification:

Located within the Luedecke Building (Cyclotron) at Texas A&M, the Cyclotron Institute is the world's leading provider of beamtime for testing the radiation resilience of space electronics. Functioning with the K500 and K150 cyclotrons, there are approximately 200 test sessions, utilizing 4,500 hours of beamtime, scheduled annually. Since 1994, over 65,000 hours of beamtime testing has been delivered to a customer base of over 180 companies and agencies. About 85% of the allocated beamtime is used by national defense agencies such as the Air Force, Navy, and Sandia National Laboratory, or commercial companies testing products under defense contracts. The remaining beamtime is used by organizations such as NASA, SpaceX, Blue Origin, and Amazon for near-earth and deep-space exploration applications. Steady industry growth is expected as CHIPS (Creating Helpful Incentives to Produce Semiconductors) and Science Act funding will lead to more applications in space radiation environments. The number of beam hours available nationally, as well as the workforce available for assuring radiation resilience in electronics, is of great concern. With rising demand, increased testing capacity is essential. The current institute was shoehorned into the existing building and lacks both the space needed for multiple users and the ability to test in an access-controlled environment. A building expansion, including new beamlines accessible from the west side of the building, will be crucial in addressing these challenges, offering more efficient and secure testing capabilities essential to national and industry needs.

The expansion of the Cyclotron Institute at Texas A&M will significantly benefit the university, the state of Texas, and the national and international community. By providing space for a new state-of-the-art spectrometer and radiation effects studies, the university will strengthen its position as a global leader in nuclear science research and applications. This will attract top-tier researchers, students, and industry partners to the campus, enhancing Texas A&M's academic reputation, as well as drive further innovation, funding, and recognition for the university. Most importantly, the proposed project will make the Cyclotron Institute a key differentiator in Texas A&M being a leader in chip design and fabrication with the ability to do radiation hardness tests on materials and electronics at various stages during design and fabrication. This will also allow for an enhanced workforce development effort in radiation effects testing.

Scope:

The proposed Cyclotron Institute Expansion totals 17,000 gross square feet (GSF), which translates to 10,652 assignable square feet (ASF) at 62.7% efficiency, and consists of two floors, including one floor below grade. The new addition will include two Single Event Effect (SEE) Caves, two SEE Cave Data Rooms, an Experimental Hall, a Flex Experimental Area, an Equipment Power Supply Room, a Loading Dock and Staging Area, a Power Supply Vault and Pump Room, four offices, and a breakroom. Space will be provided to increase beamline testing capabilities and allow for the future installation of a new spectrometer. The proposed building addition will expand the capabilities for all the programs constituting the Cyclotron Institute by adding onto the southwest side of the existing Luedecke Building on the College Station campus.

This project will address exterior site elements including the relocation of existing liquid nitrogen and helium tanks, renovation of the Storage-Cyclotron building (0718), and the regrading and

repaving of the area between the Luedecke Building and the James J. Cain ’51 Building to allow for the rerouting of the fire lane to exit onto Spence Street and improve delivery access to both buildings. The demolition of the Storage and Lab-Cyclotron building (0717) is included in this scope to clear the path for the rerouting of the fire lane to exit onto Spence Street.

Other Major Fiscal Impacts:

None.

Strategic Plan Imperative(s) this Item Advances:

Approval of this agenda item will support The Texas A&M University System strategic imperatives 1, 4, 5, and 7. More specifically, in support of imperative 1, the expansion of the Cyclotron Institute, including the Luedecke Building and additional beamline caves, will significantly increase opportunities for student engagement in high-level research. The enhanced infrastructure will support a broader range of experimental possibilities, thereby attracting students with diverse academic and research interests. These improvements will allow students to participate in cutting-edge projects, contributing to their academic and professional growth. In support of imperative 4, this project will elevate the Cyclotron Institute’s research capabilities, positioning Texas A&M at the forefront of SEE testing and research. By increasing the number of experimental beamlines and providing additional experimental facilities, the university will be better equipped to attract major research grants and partnerships, fostering a vibrant research community. This growth will lead to a higher revenue generated by additional testing space, increased research publications/citations, and greater national and international recognition, thus strengthening Texas A&M’s research portfolio. In support of imperative 5, expanding the Cyclotron Institute will not only bolster the university’s research capabilities but also enhance its contributions to fields critical to Texas and the broader U.S. economy, such as national defense. The planned addition of SEE caves and Experimental Hall will increase the facility’s operational efficiency, offering more research options and collaborations. This will enable Texas A&M to play a critical role in advancing technologies that impact the state’s industrial base, workforce, and innovation economy. Finally, in support of imperative 7, the expanded Cyclotron Institute will be a hub for pioneering research in SEE testing and radiation effects on materials. The new facilities will enable researchers to tackle critical issues such as space exploration, national defense, and potentially medical applications of radiation. By fostering collaborative research with international partners and federal agencies, the expanded institute will solidify Texas A&M’s leadership in addressing national security and technological challenges on a global scale.

Agenda Item No. 3.4

TEXAS A&M UNIVERSITY
Office of the President
January 8, 2026

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

Subject: Approval to Amend the FY 2026 – FY 2030 A&M System Capital Plan to Add the Cyclotron Institute Expansion Project for Texas A&M University with an FY 2026 Start Date and Appropriate Funding for Pre-Construction Services (Project No. 02-3470)

I recommend adoption of the following minute order:

"The request to amend the FY 2026 – FY 2030 A&M System Capital Plan to add the Cyclotron Institute Expansion Project for Texas A&M University with an FY 2026 start date and a total planning amount of $28,100,000 is approved.

Contingent upon the award of the Texas Space Commission grant, the amount of $2,000,000 is appropriated from Account No. 02-240300, Deans Initiatives Arts & Sciences, and the amount of $810,000 is appropriated from Account No. 02-808832-26002, Cyclotron Project, for pre-construction services and related project costs."

Respectfully submitted,

[SIGNED BY]

Thomas D. Williams
Interim President

System Approval Recommended:

[SIGNED BY]
Glenn Hegar
Chancellor

[SIGNED BY]
Susan Ballabina, Ph.D.
Executive Vice Chancellor

[SIGNED BY]
John A. Barton
Acting Vice Chancellor
for Business Affairs

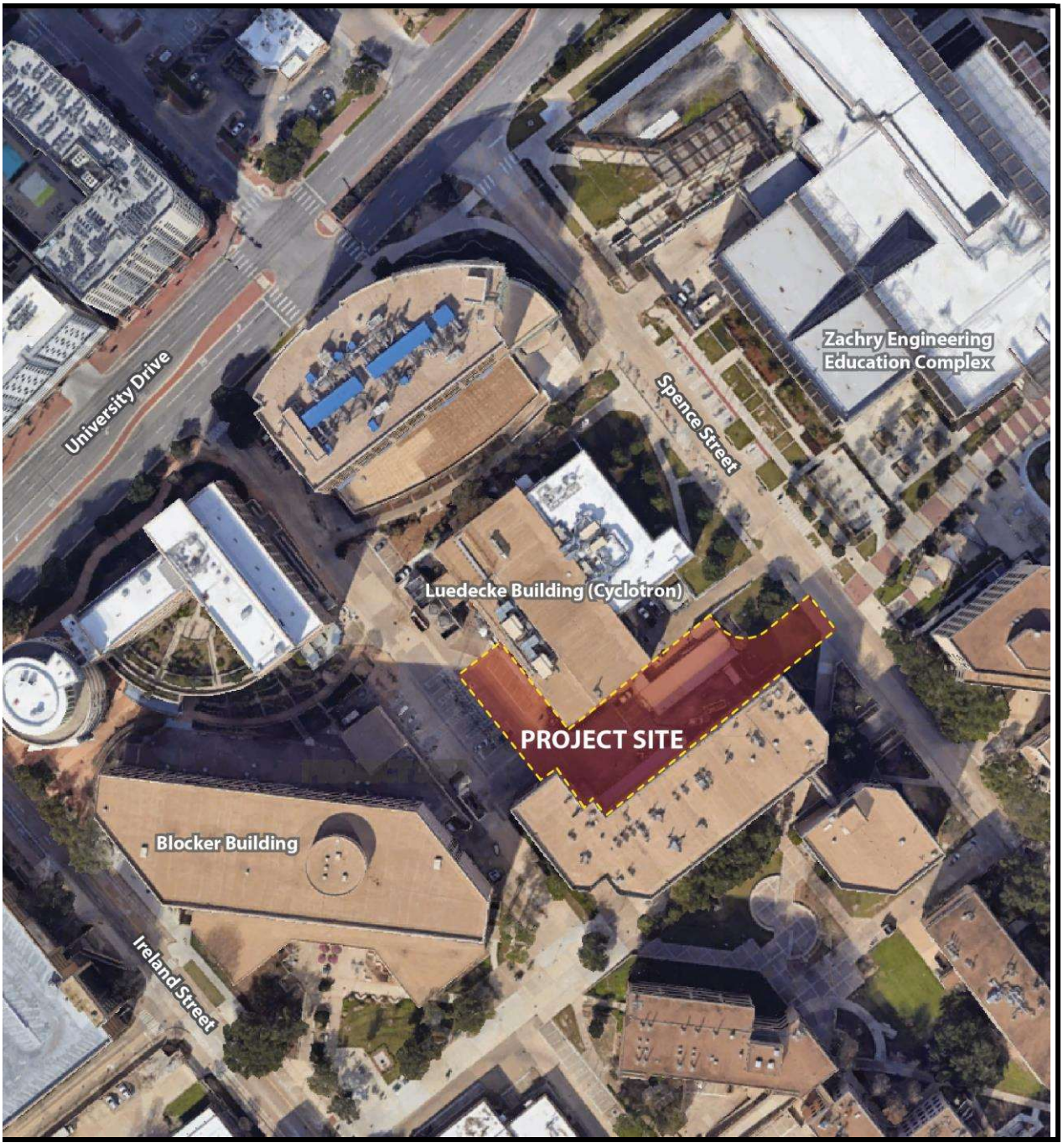
[SIGNED BY]
Ryan C. Griffin
Vice Chancellor and
Chief Financial Officer

System General Counsel Approved for Legal Sufficiency:

[SIGNED BY]
R. Brooks Moore
General Counsel

Board General Counsel Approved for Legal Sufficiency:

[SIGNED BY]
Nichole B. Bunker
General Counsel



Cyclotron Institute Expansion

Texas A&M University **Project No. 02-3470**

Agenda Item No. 3.5

AGENDA ITEM BRIEFING

Submitted by: Thomas D. Williams, Interim President
Texas A&M University

Subject: Approval to Amend the FY 2026 – FY 2030 A&M System Capital Plan to Add the Poultry Science Center Project for Texas A&M University with an FY 2026 Start Date and Appropriate Funding for Pre-Construction Services (Project No. 02-3461)

Proposed Board Action:

(1) Amend the approved FY 2026 – FY 2030 A&M System Capital Plan to add the Poultry Science Center Project for Texas A&M University with an FY 2026 start date and a total planning amount of $36,000,000.

(2) Appropriate $3,600,000 for pre-construction services and related project costs.

Funding/Planning Amount:

Funding Source	Planning Amount	Average Estimated Annual Debt Service	Debt Service Source
Revenue Financing System Debt Proceeds	$12,148,000	$943,373	Gifts
Permanent University Fund Debt Proceeds (AL-RSRCH)	$7,000,000	$543,513	Available University Fund
Cash (Differential Tuition)	$1,250,000	N/A	N/A
Cash (UAF)	$15,000,000	N/A	N/A
Cash (Gifts)	$602,000	N/A	N/A
Total Project Cost	$36,000,000		

***System policy requires 50% of the gifts funds in hand and an additional 25% in documented pledges before approval for construction on the project is received. For any funds not in hand, an unrestricted source of funds must be identified to pay for the project or for the repayment of debt prior to approval for construction. AgriLife Research has committed Indirect Cost Recoveries as an unrestricted source of funds for repayment of the debt if there is any shortfall.**

****AgriLife Research is using $7,000,000 of its PUF Equipment Allocations to provide funding for this project. These funds have been reverted to the system so they can be appropriated to this major project.**

Project Justification:

The Department of Poultry Science at Texas A&M University (Texas A&M) has a rich history, dating to 1910, that has facilitated the modernization of the poultry industry. As the largest Poultry Science program in the country, the department serves a critical role in education, research, and outreach that advances poultry management, intestinal health, environmental stewardship, animal welfare, feeding strategies, bird and human health, and food safety and quality.

The Poultry Science department serves a critical role in educating and training the nation's emerging poultry science workforce and poultry scientist researchers. Over the years, at most universities, Poultry Science has merged with Animal Science departments, resulting in only six institutions that maintain Poultry Science as a stand-alone department. Most are SEC schools, all are direct competitors, and all have signature facilities. Poultry Science at Texas A&M produces 35% of all poultry science undergraduate majors nationally, approximately 160 undergraduates per year. Texas A&M has the top Poultry Science program in the nation, industry prioritizes recruiting their students, and yet the worst Poultry Science facilities amongst its direct competitors.

The existing Poultry Science Headquarters building (1201) was built in 1986 and is prominently located on Harvey Mitchell Parkway. As processing and research methods have evolved in the poultry industry, space and capabilities at the university have not kept pace. While processing space will be consolidated with the Animal Science department in a new facility that is currently in design, the remainder of the facility lacks adequate classroom space that meets current pedagogical methods, has original building systems – mechanical, electrical, and plumbing – that are beyond their useful life expectancy, and does not provide adequate demonstration space to provide the critical transformational educational experiences that have become a hallmark of Texas A&M. Field sample collection and processing space that adheres to environmental, health, and safety requirements – required to support Texas A&M's research enterprise – simply do not exist in spaces at the farm. Due to these numerous building infrastructure issues and deficiencies, the Poultry Science department will be best able to fulfill its educational, research, and outreach missions through a new, purpose-built space.

Scope:

As currently programmed, the new Poultry Science Center Project totals 27,700 gross square feet (GSF), which translates to 16,620 assignable square feet (ASF) at 60% efficiency. The new Poultry Science Center Project will be located at the Poultry Science Research, Teaching, and Extension Center (The Farm), southeast of Easterwood Airport and along Harvey Mitchell Parkway. This highly visible and prominent location creates an important opportunity to communicate the Poultry Science department's culture of excellence to the greater community.

The new facility will provide new instructional capabilities to teach, demonstrate, and provide hands-on educational experiences for Poultry Science students. Instructional space is planned to include classroom space through two flat-floor multi-purpose rooms for group learning and one tiered lecture room to support traditional teaching methodologies. Demonstration space will

include a judging room, egg grading room, and a teaching kitchen to support coursework that requires interactive teaching to develop critical skills. An instructional wet lab is included to create the opportunity to observe different poultry specimens without jeopardizing the biosecurity of poultry research occurring at The Farm.

In addition to instructional space, three research labs are included to support field sample collection and sample processing, with analytic research to remain in other existing locations. Office space is limited to support faculty when teaching on-site and for farm management and operations staff. This project also includes the demolition of the existing Poultry Science Headquarters building (1201) and Poultry Science Handling & Judging building (1202). Temporary facilities for a farm office and restrooms are included to maintain farm operations during construction.

Other Major Fiscal Impacts:

None.

Strategic Plan Imperative(s) this Item Advances:

Approval of this agenda item will support The Texas A&M University System strategic imperatives 1, 3, and 5. More specifically, the Poultry Science department has a highly successful matriculation rate of acceptance to admittance due to active and engaged recruitment and extension programs that reach future students, their educators, and parents very early in their schooling. The new Poultry Science Center Project will enhance student experience, increase visibility for the department and allow for improved recruitment strategies and programs, aimed at growing the department and student enrollment (*Imperative 1)*. The new Poultry Science Center Project will directly support hands-on educational experiences that are critical to training the next generations for careers in the poultry industry (*Imperative 3).* While the department is the top Poultry Science program in the nation and industry prioritizes recruiting Texas A&M students, the improved facilities provided by the new Poultry Science Center Project will help further enhance the department's image and relationship amongst the local, state, and national community and industry (*Imperative 5).*