

Re-purpose of GRC Bldg. 3411 for Hybrid Electric Propulsion Research

Summary: The Mission Support Council met on February 9, 2017 and evaluated should Glenn Research Center Building 3411 (Hypersonic Tunnel Facility) be repurposed for supporting Hybrid Electric Aircraft Propulsion Research and be removed from demolition plan.

The Mission Support Council made the decision after consultation by the recommender with the following stakeholders, and several others, based on the data and analyses provided.

ARMD/AAVP Program Director, J. Dryer

AFRC Center Director, D. McBride

ARMD/AAVP/AETC Project Manager, R. Colantonio

ARC Center Director, E. Tu

MSD Deputy Associate Administrator, D. Tenney

LaRC Center Director, D. Bowles

MSD/OSI Asst. Administrator, C. Williams

Decision: Based on this review, the Mission Support Council decided to:

Option 3: Remove Bldg. 3411 complex from the demolition plan, continue to invest in area required for NEAT, and keep other areas and systems of the complex in mothball status.

- Allows for premiere multi-MW power research facility for testing of Hybrid Electric Propulsion Aircrafts technologies with lowest up-front investment (no new building required).
- Allows for:
 - High power (MW levels) and High voltage (kV levels)
 - High altitude simulation (>35,000 feet)
 - Large capacity for cryogenic (LH2, LN)
 - Large test bed foot-print (31' X 70')
 - Large exclusion zone to allow for jet engine operations
- ARMD commitment to support needed facility improvements, maintenance, and research.
- In addition to the benefits, GRC provided acceptable offsets to their center master plan.
 - GRC will put Plum Brook Station Buildings 3131 and 3112 on the demolition list to offset the square footage that would have been eliminated with demolition of Building 3411.

In addition to Option 3, it was agreed that ARMD will fund the repurposing of Bldg 3411. ARMD anticipates need through FY22. ARMD will reassess needs to Agency versus demolition of HTF through the MSC at that time.

Decider:

(b) (6)

L. Roe, DAA/MSC Chair

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Signatures represent concurrence that this decision was reached in compliance with Mission Support Council procedures, and ownership of amplifying comments relative to the decision.

Signature	Amplifying Comments
<p>(b) (6)</p> <hr/> <p>R. Lightfoot, AA</p>	
<p>(b) (6)</p> <hr/> <p>A. Hunter, Acting CFO</p>	
<p>(b) (6)</p> <hr/> <p>K. Paquin, AA MSD</p>	
<p>(b) (6)</p> <hr/> <p>T. Wilcutt, Chief S&MA</p>	
<p>(b) (6)</p> <hr/> <p>R. Wynn, CIO</p>	

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Decision execution responsibility	Accountable for:
J. Dryer / Director, Advanced Air Vehicles Program	ARMD is responsible for reassessing requirements for use of the Bldg 3411 NEAT capability vs. returning the building to the demolition list no later than FY22.

Execution milestone	Milestone Date	Responsible Party
Formally assess the scope of improvements to determine if and what portion of the cost may need reprogramming to CECR for CoF projects.	Date April 13, 2017	Title, name GRC/Thomas Hartline