



**COMMITTEE ON SCIENCE, SPACE, AND TECHNOLOGY**  
**FULL COMMITTEE MARKUP | June 14, 2023 @ 10:00 AM –**  
**Continued June 15, 2023 @ 8:30 AM**  
**Markup Results**

**H.R. 2988, DOE AND NASA INTERAGENCY RESEARCH COORDINATION ACT**

| <b>No.</b>                                                                 | <b>Amendment</b>                                          | <b>Summary</b>                                                                                                                   | <b>Results</b>                                   |
|----------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1<br>(008)                                                                 | Amendment to H.R. 2988<br>Offered by Mr. Mullin (CA)      | Adds space-based solar power as research area                                                                                    | Passed by voice                                  |
| 2<br>(048)                                                                 | Amendment to H.R. 2988<br>Offered by Ms. Bonamici<br>(OR) | To expand the scope of the report on future mutually beneficial activities to include clean energy technology and marine energy. | Passed by Voice                                  |
| On reporting H.R. 2988, DOE and NASA Interagency Research Coordination Act |                                                           |                                                                                                                                  | Bill favorably reporting by roll call vote 28 –0 |

**H.R. 2980, DOE AND NSF INTERAGENCY RESEARCH ACT**

| <b>No.</b>                                                   | <b>Amendment</b>                                        | <b>Summary</b>                                                                        | <b>Results</b>                                   |
|--------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------|
| 1<br>(016)                                                   | Amendment to H.R. 2980<br>Offered by Mr. Bowman<br>(NY) | To include hardware and networking in research on optimizing algorithms.              | Passed by Voice                                  |
| 2<br>(017)                                                   | Amendment to H.R. 2980<br>Offered by Mr. Bowman<br>(NY) | To further education, training, research, and professional development opportunities. | Passed by Voice                                  |
| On reporting H.R. 2980, DOE and NSF Interagency Research Act |                                                         |                                                                                       | Bill favorably reported by roll call vote 29 – 0 |

## H.R. 3559, FAA RESEARCH AND DEVELOPMENT ACT OF 2023

| No.        | Amendment                                               | Summary                                                                                                                                                                                                                                                      | Results         |
|------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1<br>(ANS) | Amendment to H.R. 3559<br>Offered by Mr. Lucas (OK)     | An amendment in the nature of a substitute that makes technical changes to the underlying bill to: remove section 101; correct section numbers; improve jurisdictional and technical clarity of language; added appropriations language to certain sections. | Passed by Voice |
| 2<br>(034) | Amendment to H.R. 3559<br>Offered by Mr. Posey (FL)     | Ensures pilot operators and engine safety are included concerning unleaded aviation gasoline research                                                                                                                                                        | Passed by Voice |
| 3<br>(004) | Amendment to H.R. 3559<br>Offered by Mr. Mullin (CA)    | Strengthens research on safe storage, safe utilization, and safe refueling of hydrogen propulsion...                                                                                                                                                         | Passed by Voice |
| 4<br>(005) | Amendment to H.R. 3559<br>Offered by Mr. Mullin (CA)    | Requires a study on grid resiliency to support future electric advanced air mobility                                                                                                                                                                         | Passed by Voice |
| 5<br>(010) | Amendment to H.R. 3559<br>Offered by Mr. Sorensen (IL)  | To include UAS and AAM in Aviation Weather Technology Review                                                                                                                                                                                                 | Passed by Voice |
| 6<br>(028) | Amendment to H.R. 3559<br>Offered by Mr. Obernolte (CA) | Benefits of using existing infrastructure for AAM                                                                                                                                                                                                            | Passed by Voice |

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| 7<br>(029)  | Amendment to H.R. 3559<br>Offered by Mr. Obernolte<br>(CA) | Includes consideration of<br>vertiports                                                                                                                                                                                                                      | Passed by Voice |
| 8<br>(008)  | Amendment to H.R. 3559<br>Offered by Ms. Lee (PA)          | To require that the Administrator<br>conduct a review of the application<br>of 24 artificial intelligence and<br>machine learning technologies to<br>the ethical implications relating to<br>the exacerbation of existing racial<br>inequalities in aviation | Withdrawn       |
| 9<br>(035)  | Amendment to H.R. 3559<br>Offered by Mr. Posey (FL)        | Requires a report include an<br>examination of China's application<br>of artificial intelligence and<br>machine learning technologies                                                                                                                        | Passed by voice |
| 10<br>(019) | Amendment to H.R. 3559<br>Offered by Mr. Williams<br>(NY)  | Adds language regarding spectrum<br>environment sensing and dynamic<br>frequency changes                                                                                                                                                                     | Passed by Voice |
| 11<br>(008) | Amendment to H.R. 3559<br>Offered by Mr. Miller (OH)       | Adds inspection and quality<br>assurance technologies to be used<br>with components produced by<br>additive manufacturing                                                                                                                                    | Passed by Voice |
| 12<br>(019) | Amendment to H.R. 3559<br>Offered by Ms. Stevens (MI)      | Enhance monitoring &<br>understanding of turbulence                                                                                                                                                                                                          | Passed by Voice |

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|------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 13<br>(039)                                                      | Amendment to H.R. 3559<br>Offered by Ms. Bonamici<br>(OR) | To encourage the continuation of research, development, testing, evaluation, and demonstration initiatives on low-carbon alternative fuels and facilitate United States sustainability and competitiveness in aviation.                                                                                                                                        | Passed by Voice                                  |
| 14<br>(036)                                                      | Amendment to H.R. 3559<br>Offered by Mr. Posey (FL)       | None of the funds authorized in this Act may be used to conduct research, develop, design, plan, promulgate, implement, or execute a policy, program, order, or contract of any kind with the Chinese Communist Party or any Chinese-owned entity unless such activities are specifically authorized by a law enacted after the date of enactment of this Act. | Passed by Voice                                  |
| On reporting H.R. 3559, FAA Research and Development Act Of 2023 |                                                           |                                                                                                                                                                                                                                                                                                                                                                | Bill favorably reported by roll call vote 29 – 0 |