

April 10, 2023

VIA EDGAR

U.S. Securities and Exchange Commission
Division of Corporation Finance
Office of Manufacturing
100 F Street, N.E.
Washington, D.C. 20549-3720

**Re: Amprius Technologies, Inc.
 Registration Statement on Form S-1
 (File No. 333-271149)
 Acceleration Request
 Requested Date: Wednesday, April 12, 2023
 Requested Time: 4:30 P.M. Eastern Time**

Ladies and Gentlemen:

Pursuant to Rule 461 under the Securities Act of 1933, as amended, Amprius Technologies, Inc. (the "**Company**") hereby requests that the above-referenced Registration Statement on Form S-1 (the "**Registration Statement**") be declared effective at the "Requested Date" and "Requested Time" set forth above or at such later time as the Company or its counsel may orally request via telephone call to the staff of the Division of Corporation Finance of the Securities and Exchange Commission. Once the Registration Statement has been declared effective, please orally confirm that event with our counsel, Wilson Sonsini Goodrich & Rosati, P.C., by calling Austin D. March at (512) 338-5410.

[Signature page follows]

Sincerely,
AMPRIUS TECHNOLOGIES, INC

/s/ Sandra Wallach
Sandra Wallach
Chief Financial Officer

cc: Michael J. Danaher, Mark B. Baudler, and Austin D. March, Wilson Sonsini Goodrich & Rosati, P.C.