

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

June 6, 2023

Gregory D. Swan Chief Financial Officer IperionX Limited 129 W Trade Street, Suite 1405 Charlotte, NC 28202

> Re: IperionX Limited Form 20-F for the Fiscal Year ended June 30, 2022 Filed August 26, 2022 File No. 001-41338

Dear Gregory D. Swan:

We have completed our review of your filing. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Sincerely,

Division of Corporation Finance Office of Energy & Transportation