September 27, 2022 Jeffrey Kirt Chief Executive Officer Greenidge Generation Holdings Inc. 135 Rennell Drive, 3rd Floor Fairfield, CT 06890 Re: Greenidge Generation Holdings Inc. Registration Statement on Form S-3 Filed September 19, 2022 File No. 333-267506 Dear Mr. Kirt: This is to advise you that we have not reviewed and will not review your registration statement. Please refer to Rules 460 and 461 regarding requests for acceleration. 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. Please contact Kyle Wiley, Staff Attorney, at 202-344-5791 or Jan Woo, Legal Branch Chief, at 202-551-3453 with any questions. Sincerely,

Division of Corporation Finance

Office of Technology

Taylor Landry

cc: