

ABSTRACT

A method of operating a non-volatile memory device, which is configured to communicate with a storage controller includes: receiving a first request indicating a read reclaim determination and including environment information from the storage controller, performing a first on-chip read operation for generating first distribution information based on the first request, determining whether a read reclaim is required based on the first distribution information, and providing the storage controller with a determination result having a first bit value in response to determining that the read reclaim is required.

FIG. 1