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U.S. Nuclear Regulatory Commission
Washington, DC 20555

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Docket No. 50-395
License No. NPF-12

DOMINION ENERGY SOUTH CAROLINA
VIRGIL C. SUMMER NUCLEAR STATION UNIT 1 (VCSNS)
SPECIAL REPORT 2025-001
INOPERABLE LOOSE-PART MONITORING SYSTEM CHANNEL

Dominion Energy South Carolina, Inc. (DESC) hereby submits Special Report 2025-001, pursuant to the requirements of VCSNS Technical Specification (TS) 3.3.3.10 Action a (and TS 6.9.2). This special report is required because the VCSNS Loose-Part Monitoring System (LPMS) Channel 2 has been inoperable for greater than 30 days.

TS 3.3.3.10 requires the LPMS be operable in Modes 1 and 2. LPMS Channels 2 and 3 monitor the bottom of the reactor vessel. Channel 2 was declared inoperable on December 13, 2024, after failing its background check due to a degraded signal. LPMS Channel 3 continues to monitor this region of the reactor vessel for loose parts. Loss of dual-channel coincidence reduces one aspect of the false alarm filtering functionality. The failed transducer for Channel 2 (IAT00752) is planned for repair or replacement during Refuel 29 in Spring 2026.

Should you have any questions, please call Justin Bouknight at (803) 941-9828.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Jenkins", written over a light blue horizontal line.

Beth Jenkins
Site Vice President
V.C. Summer Nuclear Station

Commitments contained in this letter: None

Cc: G. J. Lindamood – Santee Cooper
L. Dudes – NRC Region II
G. Miller – NRC Project Mgr.
NRC Resident Inspector
Marsh USA, Inc.