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DATE: 25 August 2023

SUBJECT: FSU CAPS Medium Voltage Lab - Radon Evaluation

The Center for Advanced Power Systems Medium Voltage Lab (CAPS Medium Voltage) at Florida State University (FSU) has been evaluated for radon content due to indoor air quality questions that have been raised regarding other buildings on the FSU campus. From August 09 to 11, 2023, radon measurements were collected at two (2) locations at CAPS Medium Voltage. The 48-hour charcoal canister measurements were collected by a state-certified radon contractor, in accordance with standard protocols of the United States Environmental Protection Agency (USEPA) and the Florida Department of Health (FDOH). Both of the radon values all were less than the 4 picoCurie/liter (pCi/L) USEPA Action Level (below detectable levels at <0.4 pCi/L). Results for the August 2023 sampling event are summarized in the attached table.

Detectable radon levels are ubiquitous throughout the state, with most areas of Florida exhibiting low radon. Outdoor levels typically are in the 0.4 to 0.5 pCi/L range, and indoor levels regularly range from 1 to 2 pCi/L. Radon comes from decay of natural radium, and elevated indoor radon is related to local geology. Radon often is present in clays, phosphate rock, and igneous rocks, like granite, and can originate from bedrock far below land surface. Because it is a naturally occurring substance, exposure is common and unavoidable.

The data summarized herein reflect a condition that is consistent with many buildings in Florida and throughout the United States, and the radon conditions at the CAPS Medium Voltage Lab do not represent a health concern. Further investigation regarding radon is not recommended at this time.

RADON MEASUREMENTS - CAPS Medium Voltage Lab, Florida State University

Location	Sampling Dates	Number of Samples	Min pCi/L	Max pCi/L	Notes
First Floor	09 Aug to 11 Aug 2023	2	<0.4	<0.4	No results > 4 pCi/L

pCi/L = picocuries per liter