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FROM: Dr. Christopher M. Teaf
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TO: James Stephens
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SUBJECT: FSU Magnolia Hall - Radon Evaluation

The Magnolia Hall residence hall building (Magnolia) 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 May 2 to May 4, 2022, radon measurements were collected from 9 locations at Magnolia. 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). One of the nine radon values exceeded the 4 picoCurie/liter (pCi/L) USEPA Action Level. The results ranged from <0.3 pCi/L to 8.7 pCi/L. From May 23 to May 25, 2022, 5 additional 48-hour charcoal canister measurements and 2 continuous radon monitor (CRM) samples were collected from the specific area in Magnolia where the one radon sample result exceeded the 4 pCi/L Action Level. None of the more comprehensive sampling results taken in this area from May 23 to May 25 exceeded the 4pCi/L Action Level. Results for the May 2022 sampling events 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 Magnolia Hall do not represent a health concern. Further investigation regarding radon is not recommended at this time.

RADON MEASUREMENTS - Magnolia Hall, Florida State University

Location	Sampling Dates	Number of Samples	Min <i>pCi/L</i>	Max <i>pCi/L</i>	Notes
1st Floor	2 to 4 May 2022	9	<0.3	8.7	One result > Action Level 4.0
1st Floor (charcoal resamples)	23 to 25 May 2022	5	1.2	1.5	No results > Action Level 4.0
1st Floor (CRM resamples)	23 to 25 May 2022	2	1.9	2.1	No results > Action Level 4.0

pCi/L = picocuries per liter