



**DESIGN & CONSTRUCTION GUIDELINES**

**DIVISION 13 SPECIAL CONSTRUCTION**

<b><u>DIVISION 13 SPECIAL CONSTRUCTION</u></b>	
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**SECTION 13 34 00 PRE-ENGINEERED STRUCTURES****1.1 ENGINEERING DATA REQUIRED**

- A. An analysis of framing and structural components is required. Data shall bear the seal and signature of a professional engineer, registered in Florida, attesting that the structures meet requirements of the specifications and comply with requirements of applicable codes. Copies of this data shall be submitted to the USF Facilities Management (USF-FM).

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END OF SECTION 13 34 00

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**SECTION 13 49 00 RADIATION PROTECTION****1.1 OWNER REQUIREMENTS**

USF Radiation Safety Officer should be contacted early in the design phase to assist with radiation safety/protection requirements for USF. Radiation machine means any device capable of producing x-rays except those devices with radioactive materials as the only source of radiation. Radiation machines must comply with State of Florida Administrative code 64E-5 and Food and Drug Administration, Code of Federal Regulation (FDA CFR) Title 21.

**1.2 RADIATION PROTECTION SURVEY**

Room and equipment radiation shielding must be based on current and applicable National Council on Radiation Protection (NCRP) standards/reports after the X-ray equipment has been installed and placed in operating condition, a radiation protection survey shall be performed by a qualified expert recommended by NCRP.

**1.3 LISTING REQUIRED**

A. The University Research Integrity & Compliance – Radiation Safety Office has the responsibility of registering all equipment that directly produces ionizing radiation with the State of Florida, Department of Health, Bureau of Radiation Control, and Radiation Machine Program (in compliance with the regulations in Florida Statute, Chapter 404 and F.A.C. 64E-5). A listing of all such devices, as well as all radioactive materials specified in the contract documents, shall be submitted by the Consultant to the USF-FM with those documents. Devices include, but are not necessarily limited to:

1. lasers and maser
2. radar
3. microwave generators
4. electron microscopes
5. infrasonic, sonic, and ultrasonic generators
6. X-ray generators and accelerators
7. electron welders
8. diatherapy units
9. infrared and ultra-violet sources

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END OF SECTION 13 49 00