

1. RADIATION SAFETY

1.1 PURPOSE

Various sources of radiation can be found at NSU from laser and ionizing radiation to radioactive material. To inform Contractors of their responsibility to follow all applicable radiation safety rules and radiation licensing conditions which are outlined in NSU Radiation Safety Plan.

1.2 RADIATION SUMMARY

NSU faculty, employees and students use licensed radioactive materials daily with careful regard to all safety requirements; in addition laser and ionizing (X-ray) equipment are used in areas which are restricted or with limited access to unauthorized persons. All areas where radiation sources are used or stored are duly posted with caution signs.

NSU insists that Contractors and their employees are attentive to radiation safety so as to keep radiation exposure “as low as reasonably achievable” (ALARA).

1.3 RESPONSIBILITIES

The Contractor shall perform the following at least a week prior to proceeding with any repair or renovation of a University facility that houses radiation equipment, laser, and radioactive materials or proceed with any use of a radiation source:

- 1) Implement and enforce applicable radiation safety policies and procedures necessary to complete the contracted project with full attention to the safety of all University faculty, staff, students, visitors and the contractors' employees.
- 2) Provide the EH&S office with sufficient information to allow the Radiation Safety Officer to review the radiation safety aspects of the contracted project.
- 3) For structural imaging or testing, the following information must be included in the safety procedures:
 - scope and schedule of the work.
 - the location, direction, and exposure duration of the radiation.
 - the strength and other major properties of the radiation source.
 - the means of providing uninterrupted security for the radiation source and surveillance of radiation for the surrounding areas.
- 4) If for any reason there is radiation usage, this information must be included by the Contractor:
 - the registration, license or license application required to use radiation.
 - a written and drawn description of the work to be performed
- 5) For work performed near a University radiation source, the Contractor must provide a plan and stay-time estimate.
- 6) Areas where lasers are installed will be posted with standard laser warning posters.
- 7) Never intentionally stare into a laser beam.
- 8) For work on any chemical hoods, biosafety cabinets, sinks or other equipment labeled with the radiation warning sign “Caution Radioactive Material” or “hot sink” the

information must include the location (building and room number) and the specific hood, cabinet, sink or other equipment and the planned work to be performed.

1.4 REGULATIONS

U.S NRC 10 CFR Part 19	Notices, Instructions and Reports to Workers: Inspection and Investigation
U.S. NRC 10 CFR Part 20	Standards for Protection against Radiation
U.S. NRC 10 CFR Part 35	Medical use of Byproduct Material
DOT 49 CFR Parts 171 – 185.	Subchapter C Hazardous Materials Regulations
EPA regulation and statutes	

1.5 ACCOUNTABILITY

All contactors will be responsible for complying with the guidelines as described above. Contractors are to communicate to their employees and Subcontractors all the guidelines and relevant information. All work shall be performed in accordance with University policies and procedures as well as all applicable laws and regulations.