SECTION 400.00 - ITD NUCLEAR GAUGE PROGRAM

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SECTION 400.00 - ITD NUCLEAR GAUGE PROGRAM

The administration of the nuclear gauge program is handled through the Central Materials Laboratory. A person within the laboratory who is qualified as a Radiation Safety Officer (RSO) will manage this program statewide and provide liaison with the Nuclear Regulatory Commission (NRC). The RSO will ensure that all personnel will be trained in the safe handling and proper usage of nuclear equipment according to the policies and regulations set by the NRC. All personnel shall be provided with the proper equipment to perform their duties. Districts, operators, and equipment will be monitored on a routine basis for conformance to policies and regulations. Failure to comply could result in substantial penalties and fines to ITD as well as the individual.

SECTION 410.00 – ITD CENTRAL MATERIALS LABORATORY

The Central Materials Laboratory will carry the license, provide policies and regulations, and maintain a line of communication with the NRC.

The Central Materials Laboratory will provide, administrate, and fund a program monitoring personal exposure to radiation, i.e., personal dosimetry, as well as provide, administrate, and fund a leak testing program.

The Central Laboratory will assign nuclear density gauges to districts and conduct a nuclear density gauge inventory every six months, or as requested, and provide a depot with storage for nuclear density gauges that require repair or recalibration.

The Central Materials Laboratory will maintain records on personnel, training, dosimetry, and nuclear density gauges. And will provide personnel exposure records to District RSOs and certification cards to qualified operators.

The ITD RSO will conduct an audit in each District at least once per year and record the findings of the audit to comply with NRC requirements.

The Central Materials Laboratory will oversee the procurement and funding of new nuclear density gauges, as well as disposal of old nuclear asphalt content or density gauges according to NRC regulations.

SECTION 420.00 – ITD DISTRICT MATERIALS LABORATORIES

Each ITD District Materials Engineer will assign at least one person to obtain required training and become qualified as the District RSO. The District RSOs duties include:

- distribute and collect Thermoluminescent Dosimeters (TLDs) at specified intervals and provide exposure records to gauge users.
- distribute certification cards as required,
- maintain a permanent nuclear density gauge storage area,
- assign nuclear density gauges to residencies as needed,
- provide shipping papers and documents
- ensure that nuclear devices are being used safely, transported correctly, and TLDs worn during gauge use.
- perform wipe tests on nuclear devices as requested.
- conduct an audit on randomly selected personnel several times per year. The results are provided to the ITD RSO at Central Materials Laboratory.

SECTION 430.00 – ITD DISTRICT RESIDENCIES

Residencies will assign nuclear density gauges to qualified operators/projects with provisions for temporary storage sites, when necessary, and document the location. In addition, they will ensure proper use of nuclear devices and see that each user has a certification card, TLD, proper shipping papers, and a properly secured and labeled nuclear density gauge.

SECTION 440.00 – REQUIRED TRAINING

ITD Central Materials Laboratory provides all essential training to ITD District personnel within the program. Required classes include the following:

An 8-hour Nuclear Gauge Certification Class (NRC approved).

Gauge operator classes or on-the-job training.

Refresher classes at a frequency not exceeding 2 years.

Persons at the District Level must attend the NRC approved 8-hour RSO class in order to qualify for the position of District RSO or Assistant District RSO.

Refresher classes may be instructed by state personnel familiar with the subject matter, such as the ITD RSO or a District RSO. Information presented must cover regulatory compliance, transportation, personal monitoring, emergency response, and general safety with radioactive materials.

The ITD RSO is required to attend a 40-hour training class conducted by the NCR.

SECTION 450.00 – REQUIRED FORMS

The following list of forms will be used where required for compliance to the ITD Nuclear Gage Program:

- ITD-804 Certificate of Training for Transportation of Nuclear Devices
- ITD-817 Nuclear Program Audit
- ITD-823 Nuclear Gage Inventory Record
- ITD-824 Shippers' Certification for Radioactive Materials
- ITD-825 Nuclear Gage Inventory Record
- ITD-863 Nuclear Gage Dispatch Log
- ITD-864 TLD Personnel List – Nuclear Program
- ITD-866 Wipe Test Kit for Nuclear Density Gage (Internal & Rod Source)