
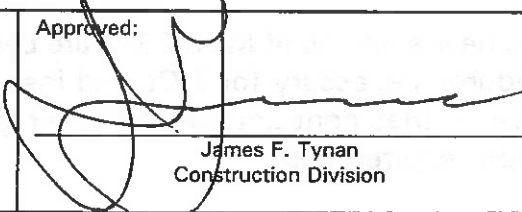


<p>n-30-1-87728-</p> <p>SUPERSEDED ^{BY} EB01-030</p> <p>EFFECTIVE 5/30/01</p>		<p>New York State Department of Transportation</p> <p>ENGINEERING INSTRUCTION</p>	<p>EI</p> <p>98-025</p>
<p>Title: STANDARD SPECIFICATIONS, JANUARY 2, 1995, SECTION 107-05 G - EQUIPMENT INVOLVING RADIOACTIVE MATERIALS</p>			
<p>Distribution:</p> <p><input type="checkbox"/> Manufacturers (18)</p> <p><input checked="" type="checkbox"/> Main Office (30)</p> <p><input type="checkbox"/> Local Govt. (31)</p> <p><input checked="" type="checkbox"/> Regions/Agencies (32)</p> <p><input type="checkbox"/> Surveyors (33)</p> <p><input checked="" type="checkbox"/> Consultants (34)</p> <p><input checked="" type="checkbox"/> Contractors (39)</p> <p><input type="checkbox"/> _____ ()</p>	<p>Approved:</p>  <p>James F. Tynan Construction Division</p>		<p>7-2-98</p> <p>Date</p>

EFFECTIVE DATE

The transmitted materials are effective starting with Letting of November 19, 1998. For contracts let prior to this date, these provisions should be enforced under the authority of §107-01 and 107-05 of the Standard Specifications.

TRANSMITTED MATERIALS

This EI transmits the new Section 107-05 G - Equipment Involving Radioactive Materials. This Section is to be inserted after paragraph 107-05 F on p. 1-69 of the Standard Specifications, January 2, 1995.

PURPOSE

This Engineering Instruction transmits a new safety and health specification reinforcing existing regulations governing the use of a radioactive source on a Department project. Nuclear density gauges containing radioactive sources are used for determining acceptance and payment of several asphalt concrete paving materials, soil density testing, and may be used for other purposes as well.

BACKGROUND

Department efforts to improve pavement performance are resulting in widespread use of nuclear density gauges to measure pavement and soil density on construction projects. In addition to use by Department employees from the Regional and Main Office Technical Services Division, this equipment will also be commonly used by contractors during paving operations.

Regulations established by the U. S. Nuclear Regulatory Commission, the USDOT, and NYSDOL establish safe procedures for the transportation, operation, and storage of these low level radiation sources, and establish acceptable radiation exposure levels for workers exposed to the equipment. All gauge owners, both contractors and NYSDOT, are required to adhere to these regulations, including a NYSDOL license, and all operators must be trained and safety certified by a gauge manufacturer. In addition, all gauge operators must be provided with personnel monitoring devices to measure their radiation exposure. Existing requirements in §107-01 of the Standard Specifications require contractor compliance with these regulations, and §107-05 requires a Project Health and Safety Plan that addresses issues such as radiation safety.

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However, no Department specifications were previously issued to alert contractors to these specific requirements as they apply to nuclear density gauges and other radiation sources. The new specification establishes a requirement for the contractor to provide the Department with a Radiation Safety Plan which will demonstrate compliance with the various federal and state requirements in one concise package. No new requirements are imposed.

In addition, new sections of MURK 1-C are being issued separately to provide the information and procedures necessary for EICs and inspectors to protect their own health and safety, and to ensure that contractors and other gauge operators follow these regulations and specification requirements.

CONTACT PERSON

If you have any questions, please contact the Construction Safety Unit at 518-485-1834.

Add the following paragraph after paragraph 107-05F on p. 1-69 of the Standard Specifications, January 2, 1995.

107-05 G. EQUIPMENT INVOLVING RADIOACTIVE MATERIALS. The use of equipment involving radioactive materials, including but not limited to nuclear density gauges, shall adhere to all applicable regulations, including U.S. Nuclear Regulatory Commission regulations, related USDOT regulations concerning transportation of radioactive materials, and 12 NYCRR Code 38. Fourteen days prior to the start of any work involving such equipment, the contractor shall submit to the Engineer-in-Charge a written Radiation Safety Plan. The plan shall address in detail transportation and storage of the equipment and operating and emergency procedures. It shall provide the name and address of the contractor's Radiation Safety Officer. A copy of the owner's license to possess the radiation source, issued by the NYSDOL, shall also be provided. All operators of the equipment shall be certified by a gauge manufacturer as to having completed training on the safe use of the equipment. A copy of the certification shall be provided to the Engineer for each operator prior to their work on the project.

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