

## PART 544 - EQUIPMENT

### 544.00 General.

Much of the equipment utilized to collect data, test materials, and store samples is sensitive to vibration, weather or other environmental conditions. It is essential that all equipment be maintained, transported, and stored properly. Extra care to handle equipment properly and in accordance with the manufacturer's recommendations will help to ensure data is collected accurately, test results are correct, and down time because of inoperable equipment is reduced. Special training in the proper handling of specialty equipment, such as nuclear moisture and moisture/density gauges, may be required by agreements with regulatory agencies.

### 544.01 Transporting equipment.

Sensitive equipment, such as levels, transits, theodolites and especially the modern electronic survey equipment requires special handling and transporting. It is essential that all equipment be maintained, transported, and stored properly and in accordance with the manufacturer's recommendations. All equipment should be transported in proper containers in order to minimize problems associated with vibration and sudden stops. Special arrangements need to be followed in the handling and transporting of equipment that contain nuclear energy sources. The requirements provided by the equipment manufacturer and all terms and conditions of applicable agreements in the acquisition and utilization of nuclear gauges shall be followed.

### 544.02 Adjustment and calibration.

All equipment utilized to collect data for designs and to provide installation quality assurance shall be checked frequently to ensure accurate information is being obtained. All engineering survey equipment shall be checked, calibrated, and adjusted at least annually. Adjustment of equipment should be made only by those who have a full understanding of the care and maintenance of the equipment. Checking of instruments shall be

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in accordance with procedures outlined in the Engineering Field Handbook, Chapter 1, and/or the manufacturer's recommendations.

### 544.03 Maintenance.

All equipment shall be kept in good working order. Maintenance instructions provided by the manufacturer and other pertinent information shall be located in the Engineering Field Handbook and must be followed.

### 544.04 Storage

All equipment is to be stored in a clean, dry condition as recommended by the manufacturer. Specialty equipment, such as nuclear gauges, may have further requirements that may concern location, security, and signage.

### 544.05 State procedures.

(a) Each state is to develop specific procedures for ensuring proper care and maintenance of engineering equipment, including storage and carrying cases. The procedures should outline the minimum skills needed to operate the equipment and what specific guidelines must be followed during usage.

(b) Information about the proper cleaning, maintenance, and repairs should be provided each office. If the state has an individual(s) with equipment operation and maintenance responsibilities, his/her name(s) and telephone number should be provided to the appropriate offices within the state.