

**Chapter DHS 157****APPENDIX J**

---

**Subjects to be Included in Training Courses  
for Well Logging Supervisors**

- I. Fundamentals of Radiation Safety
  - A. Characteristics of radiation
  - B. Units of radiation dose and quantity of radioactivity
  - C. Significance of radiation dose and hazards of exposure to radiation
    - 1. Radiation protection standards
    - 2. Biological effects of radiation dose
  - D. Levels of radiation from sources of radiation
  - E. Methods of minimizing radiation dose
    - 1. Working time
    - 2. Working distances
    - 3. Shielding
  - F. Radiation safety practices including prevention of contamination and methods of decontamination
- II. Radiation Detection Instrumentation to be Used
  - A. Use of radiation survey instruments
    - 1. Operation
    - 2. Calibration
    - 3. Limitations
  - B. Survey techniques
  - C. Use of personnel monitoring equipment
- III. Equipment to be Used
  - A. Handling equipment
  - B. Sources of radiation
  - C. Storage and control of equipment
  - D. Operation and control of equipment
- IV. The Requirements of Pertinent Federal and State Regulations
- V. The Licensee's or Registrant's Written Operating and Emergency Procedures
- VI. The Licensee's or Registrant's Record Keeping Procedures
- VII. Case histories of well logging accidents