

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