The Future of Industrial Radiography Certification

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Chair, G-34 Committee on Industrial Radiography
Conference of Radiation Control Program Directors
G-34 Committee

- **Members**
  - Paul Brown (IL)
  - Beth Schilke (VA) (liaison to ASNT)
  - Tiffany White (LA)
  - Jack Tway (NJ)

- **Advisors**
  - David Turberville (AL)
  - Mike Broderick (OK)
  - Jayson Moak (MS)

- **Resource Individuals**
  - Lizette Roldan (NRC)
  - Don Didion III (ASNT)
  - Donnie Dicharry (NDTMA)
Industrial Radiography

- Non-destructive testing using radiation
- Potential for radiation exposure to worker and public
- More radiation-related accidents occur in this industry than any other
Past

- 10 CFR 34 revised changed in 1997
  - Federal Register Vol. 62 No.102
- 10 CFR 34.43 required certification
- Appendix A – Requirements for Certifying agencies

Adopted to reduce the number of accidents and to provide a consistent training standard
Certification Requirements

- Approved training course
- 2 months on the job training
- Demonstrate the capability to work independently as a radiographer (exam)
APPROVED TRAINING COURSE
• 40 hour course approved by a the NRC or an Agreement State

• Includes the topics in 10 CFR 34.43(g) or equiv. Agreement State Regulations

• Typical Classroom setting
• 2014 the first online 40 hour course approved by Agreement States

• 28 hours of online training

• 12 hours of hands on instruction
  • Operation of Survey Meter
  • Demo of typical surveys
  • Setting boundaries
  • Use and wearing of dosimeters and alarming rate meters
  • Demo of basic operation of rad equipment
  • Demo of routine daily inspections
  • Demo of proper techniques to avoid incidents
  • Review for final exam
  • Time to take a proctored closed book final exam
• 2016 ASNT IRRSP-1A revised to include online training

• Currently, four online classes approved for 40 hour training
Benefits include

• Flexible and Convenient
• Reduce travel expenses
• Train whenever and wherever
• Cost effective
TESTING AND CARDS

INDUSTRIAL RADIOGRAPHY
EXAM
JUNE 20, 2016
CHECK-IN 9:30 AM
1ST FLOOR
MULTI-PURPOSE ROOM
Current Procedure

- Apply for Exam
- Wait to be placed into an exam
- Travel to exam location on specific date and time
- Take your exam (pencil, paper, Scantron)
- Wait days for your exam score
- Wait weeks for your card
Rad Exam

- The State of Texas and ASNT suppliers of exam to all Agreement States
- CRCPD brokers exam between States and Texas
2018 Exam Statistics

CRCPD Testing States & 2018 Exam Volume

- Alabama – 54 exams
- Georgia – 68 exams
- Illinois – 472 exams
- Iowa – 83 exams
- Louisiana – 912 exams
- Maine – 27 exams
- Oklahoma – 519 exams
- Texas – 1,548 exams
- Total exams = 3683
Electronic Testing

• ASNT currently offers certification testing at testing centers

• CRCPD currently considering the possibility of changing to testing centers for certification testing
Benefits include

- Flexible and Convenient
- Reduce travel expenses
- Test whenever and wherever
- Cost effective
- Provisional test scores immediately
Electronic cards?
CERTIFYING ENTITY
AUDITS
Nine states certify Industrial Radiographers

- Alabama
- Georgia
- Illinois
- Iowa
- Louisiana
- Maine
- North Dakota
- Oklahoma
- Texas

One Independent Certifying Entity

- American Society for Non-Destructive Testing (ASNT)
National Materials Pilot Program

- No centralized oversight for state and independent certifying organizations

- Program undertaken by CRCPD, NRC and OAS

- CRCPD, through G-34 Committee, will serve as the lead organization for the oversight of all activities associated with a national industrial certification program
  - Review of initial applications
  - Review of subsequent program changes
  - Authority to do follow-up evaluations of program status, and maintenance and test administration activities

- Contribute to the credibility of certification programs nationwide
National Materials Pilot Program

- Consists of 5 Documents
  - Procedures for Initial and Periodic Review
  - Radioactive Material Criteria
    - 10 CFR 34, Appendix A
  - X-Ray Criteria
    - Suggested State Regulations for Control of Radiation Part E
  - Review Questionnaire
  - Test audit
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