

# Due Diligence in Professional Engineering *When and How*



Presented by

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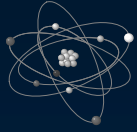
*Associate Professor and*

*FP&L Endowed Term Professor -- 2007.2010*

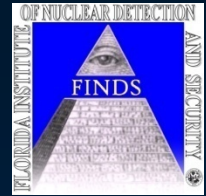
**Florida Institute of Nuclear  
Detection and Security**

**Nuclear & Radiological Engineering**

**University of Florida**

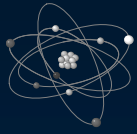


# Due Diligence

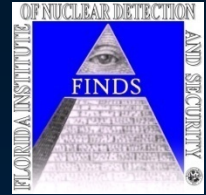


- Background
- Concept of Due Diligence
- Integrity
- Service
- Excellence
- The full picture
- Concluding remarks



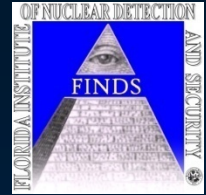
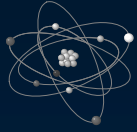


## Background: Glenn Sjoden, PhD, PE



- Career Experience
  - 25 years in non-proliferation, radiation transport, detection
  - LTBT, CTBT Systems, arms control
  - 20 Yrs in USAF (Lt Col (ret))
  - 5+ Yrs at UF, tenured
- Research Activities
  - 3-D Radiation Transport (Sn/MC)
  - Optimized SNM Detection
  - Whole core Sn Modeling
  - Parallel Computing
  - 3-D Sn based Fuel burnup
  - Nuclear Forensics
  - Computational Medical Physics (UF Shands)
  - Digital Control Systems (NRC)
- Teaching Activities
  - Nuclear Engineering Analysis
  - Nuclear Reactor Theory
  - Reactor Kinetics
  - Non-Destructive Testing
  - Reactor Design
- Professional
  - Consultant to DoD, DHS, DOE
    - TS/SCI Cleared
  - V.P., HSW Technologies LLC
  - Member of ANS, ACS
  - Associate Ed – IEEE-TNS

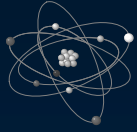




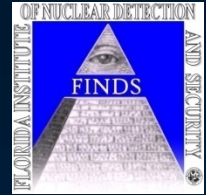
## Due Diligence definitions:

- The decision to commit resources or not to commit, based upon a balance of objective data analysis, insight into organizational health and stability, and intuition
- Standard of thoroughness by which the job is executed to completion
- Quality in a completed job achieved with “full duty of care”





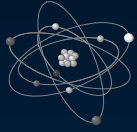
# Due Diligence in action...



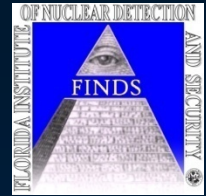
- Full “Duty of Care” in addressing engineering goals, certifications, and regulations
- Maintaining standards: engineering licensure required for true engineering consulting in many states
- Quality of professional review for professional engineers serving as consultants for business
- Target to yield the optimum mix of
  - Integrity
  - Service
  - Excellence

Examples....



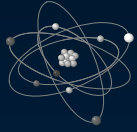


# Due Diligence



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# Questions?

