Source Security
Joint STC-NTC HPS Meeting
September 16, 2006

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Radioactive Material Licensing Group
Radiation Safety Licensing Branch
Department of State Health Services
Four Efforts

Pre-licensing verification of intended use

Increased controls

Due diligence in transferring sources

National Source Tracking System
Pre-licensing Verification

• Applicants will use requested ram as intended

• New applicant?
• Type use requires site visit?
• For a Risk Significant Quantity?
Pre-licensing Verification

• Applicants will use requested ram as intended

• New applicant?
• Type use requires site visit?
• For a Risk Significant Quantity?

• If “Yes” to any 1 of the above, identify inconsistencies between safety-related information in the application and additional sources of information.
## Increased Controls

<table>
<thead>
<tr>
<th>Cat(^1)</th>
<th>Practices(^1)</th>
<th>A/D(^1)</th>
<th>(^{60})Co (Ci)</th>
<th>Perm Inj(^2)</th>
<th>Death(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RTG, Irr, TTx, GK</td>
<td>&gt;1000</td>
<td>810</td>
<td>Mins</td>
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</tr>
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<td>2</td>
<td>IR, M&amp;HDR</td>
<td>1000→10</td>
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<tr>
<td>3</td>
<td>(\uparrow)FxGauge, WLog(\uparrow)</td>
<td>10→1</td>
<td>0.81</td>
<td>Hrs - Dys</td>
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<td>(\uparrow)LDR, T/Fill Gauge, (\uparrow)M/D Gauge</td>
<td>1→0.01</td>
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\(^1\) IAEA-TECDOC-1344 (Categorization of Radioactive Sources); \(^2\) IAEA Code of Conduct
## Increased Controls

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Increased Controls

• Co-located RAM ≥ Table 1 (risk significant quantities)
• Deadline for implementation of controls June 2, 2006
• Controls involve:
  1. Access controls
  2. Intrusion Detection
  3. Transportation
  4. Mobile/Portable Devices
  5. Documentation
  6. Information Security
Increased Controls

1. Access controls
   a. Security
Increased Controls

1. Access controls
   a. Security
   b. Trustworthy and Reliable
Increased Controls

2. Intrusion Detection
   a. Alarms
      • 24/7
      • Security Center
Increased Controls

2. Intrusion Detection
   a. Alarms
      • 24/7
      • Security Center
   b. Coordination with Local Law Enforcement
Increased Controls

3. Transportation
   a. Security
Increased Controls

3. Transportation
   a. Security
   b. Tracking
Increased Controls

3. Transportation
   a. Security
   b. Tracking
   c. Trustworthy and Reliable
Increased Controls

4. Portable/Mobile Devices
   a. Two independent physical barriers
   b. Disabled vehicle/trailer
Increased Controls

5. Documentation (3 years)
   a. Trustworthy and Reliable Checks
   b. Commercial Carriers
   c. Shipment coordinations, notifications
Increased Controls

6. Protection of Sensitive Information
Increased Controls

• Adequacy of implemented controls is determined by inspectors; to assist licensees, they:
  • Received:
    • Implementing guidance,
    • Inspection checklist, and they
  • Have access to:
    • 201 Brain-stormed Qs & As, and
    • Supplemental Qs & As.

• www.dshs.state.tx.us/radiation/announce.shtm
Due Diligence

• When transferring RAM, Licensees shall:
  • Verify recipients’ license authorizations
  • Type, form, quantity
Due Diligence

• When transferring RAM, Licensees shall:
  • Verify recipients license authorizations
  • Type, form, quantity
  • If question, call Regulatory Authority
Due Diligence

• When transferring RAM, Licensees shall:
  • Verify recipients license authorizations
    • Type, form, quantity
    • If question, call Regulatory Authority
  • Extra care when:
    • Significant increase in quantity
    • Change in location
    • Change in type or form
    • Change in key personnel
# National Source Tracking System

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• Effective sometime latter-2008:
  • NRC will activate the NSTS database.
  • Rules will be written or Licenses authorizing Cat 1-3.5 sources will be conditioned to require:
National Source Tracking System

• Information on the Manufacture, Transfer, Receipt, Disposal, or Disassembly of Cat 1-3.5 sources

• By the close of the next business day:
  • on-line, web-based system,
  • electronically by data CD,
  • facsimile,
  • mail, or
  • telephone
Discussion
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Discussion
Discussion
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