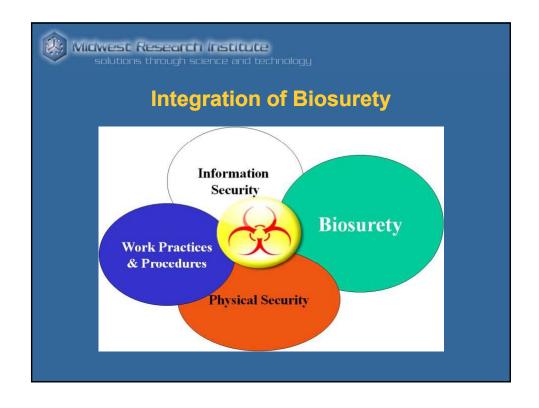


Putting more "Sure" in Biosurety

Dr. Jeff Adamovicz
Principal Science Advisor
Dr. Robert Hawley & Mr. Kirk Wilhelm
Center for Biological Safety and Security
Midwest Research Institute
Frederick, MD





Why Should You Care?

- Any facility that accepts DoD funding for select agent research must comply with DoD Biosurety regulations
- Impacts training which in turn impacts cost and schedule
- Impacts biosafety program.
- DoD program is most defined and stringent, there may be a government tendency to push it to other federal and state agencies
- There are better ways of improving/monitoring personnel reliability



Current DoD Biosurety Program

- 1) Compliance with mandated and approved safety, environmental, occupational health, operational and technical procedures
- 2) Physical security measures
- 3) Procedures to assess the reliability of personnel designated for, or assigned to Biological Personnel Reliability Program (BPRP) duties
- 4) Training and/or experience applicable to the position assigned and verification that each individual is proficient in the duties to be performed
- 5) Safe and secure acquisition, storage, handling, maintenance, transportation, inventory management, and disposal of BSAT
- 6) Emergency response to biological mishaps and incidents
- 7) Assessment of organizations that possess, use or transfer BSAT



Philosophical Underpinnings of DoD Biosurety

- 1) Program is modeled after DoD Nuclear and Chemical Surety Programs.
- 2) Harmonization of BSAT agents is implicit and follows DHHS guidelines. Access to these materials becomes the primary driver for defining a staff position as a BPRP duty position.
- 3) Reliability of persons in DoD BPRP positions is more rigorous then other federal select agent jobs.
- 4) "Trustworthiness" is an important criteria for enrollment/continuation in a BPRP position.
- 5) Medical and mental health issues are considered important criteria for enrollment and continuation of employees in the BPRP.
- 6) Responsibility for enrollment, suspension and or disenrollment and continuing evaluation is assigned to an individual designated Certifying Official (CO) for all employees at DoD facilities and to a Contract Officers Representative for contract organizations performing DoD work.



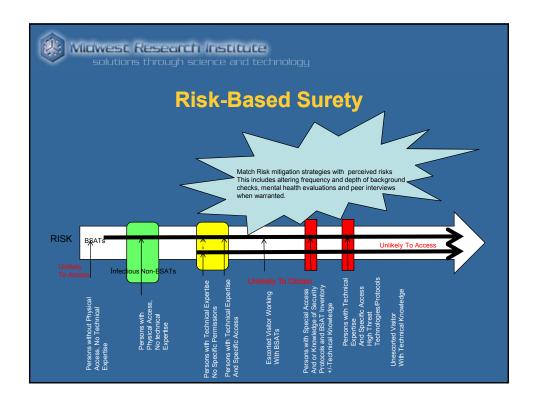
Recent Biosurety Recommendations

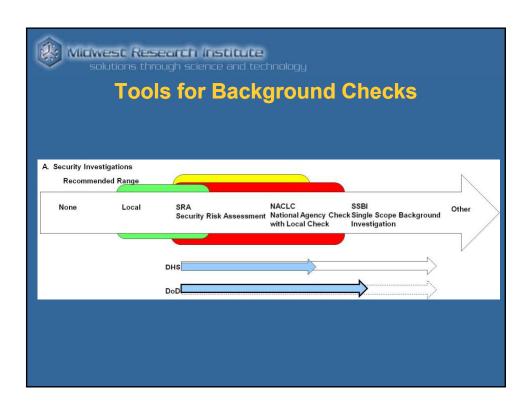
- Defense Science Board (May 2009):
 - Monitoring: "Make changes to monitoring activities to improve effectiveness without introducing overly intrusive measures." "Review the usefulness of the two-person rule in preventing insider threats"
 - Scientific Enterprise: "Balance risk of a malevolent insider against detriment to the laboratory mission."
 - Compliance inspections: "provide resources for a single independent inspection team comprised of authoritative individuals".

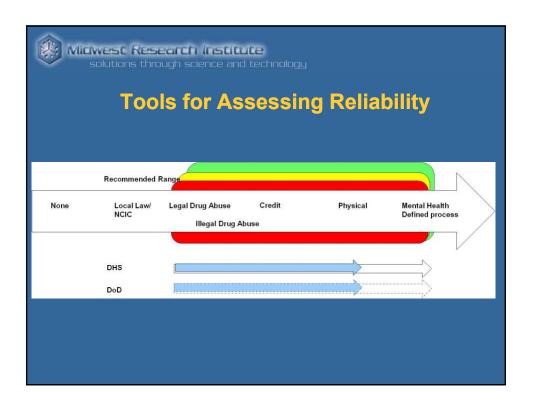


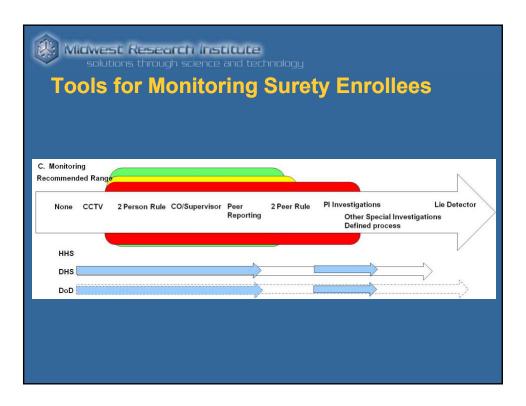
Recent Biosurety Recommendations

- National Science Advisory Board for Biosecurity (NSABB): Enhancing Personnel Reliability among Individuals with Access to Select Agents.
 - No national Personnel Reliability Program recommended
 - Current SRA process should be strengthened.
 - Culture of responsibility and accountability should be enhanced.
 - Professional societies should encourage on ongoing dialog about PRP!!!!!
 - List of select agents and toxins should be reduced or stratified.







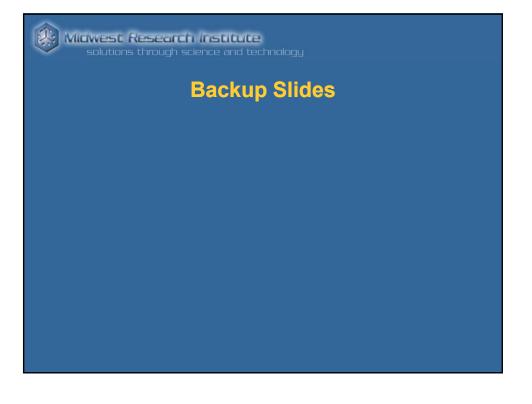




Recommendations

- Adopt a risk-based methodology to guide background checks assessment and monitoring. Allow agencies to select from a suite of possible products to match response to risk.
- Develop a unified approach to personnel reliability to mitigate "holes" in other government programs and to minimize the effect on the scientific enterprise.
- Incorporate a standard form of mental health screening in reliability programs as a riskmitigation option.
- Downplay reliance on self-reporting as the primary source of PDI. When warranted by risk increase the frequency of background checks including peer interviews.
- Include specific reviews and regulatory provisions in AR 50-1 and other national regulations to minimize the impact on the scientific enterprise.
- Include specific provisions to accommodate DoD funded research in overseas locations and to cover sponsored research by foreign nationals from/in friendly countries.¹⁴
- Develop and follow an effective 2-Peer rule vs. 2 Person rule. Rely less on CCTV as a surety measure.
- 8. Define and implement standardized risk-based training for all CO and CMA personnel.







Other General Considerations

- Accreditation
- Licensure
- Alternative HR policies



Completed Studies

- Congressional Research Report March 5, 2009, Oversight of High-containment Biological Laboratories.
- Trans-federal Task Force on Optimizing Biosafety and Biocontainment
- American Association for the Advancement of Science Report: Biological Safety Training Programs as a Component of Personnel Reliability



Pending Legislation and Studies Involving Personnel Reliability

- HR 1225/S485 Select Agent Program
- National Academy of Sciences Report on (Personnel Reliability Sept 09)