



TSUSG Priority 7 Committee

Status: Active

Mission: Managing radioactive source transportation security regulations

Accomplishments:

- Developed a generic **cross reference template** draft consisting of international (IAEA & Canadian) and domestic (USDOT & USNRC) transport security regulations.
- Thanks to Kenny Self for his leadership contributing to the success of PC7 and thanks to Auggie Ong for taking over as PC Coordinator.

Next Steps:

- Broader TSUSG member review and additions to template
- State regulatory additions
- Modal transport additions

Topics	IAEA NSS 9-G (Rev. 1)	IAEA SSR-6 (Rev. 1)	Transport Canada (TDG)	CNSC (PTNSR 2015)	CNSC (REGDOC-2.12.3)	U.S. DOT 49 CFR 172 <i>et seq</i>	U.S. NRC 10 CFR 37	
						Cat 1 and Cat 2 Material	Cat 1	Cat 2
Personnel Trustworthiness & Reliability	2.22(g), 2.29(f), 4.27, 5.12, 5.13, 5.54			N/A	(3.3)	172.802 (a)(1)	37.25	37.25
Credentials and Badging of Personnel				N/A	(3.2.1)	172.802 (a)(2)	37.21	37.21
Confirm information provided by job applicants				N/A	(3.3.3)	172.802 (a)(1)	37.25	37.25
Coordination between Shipper, Carrier, Receiver	5.41			N/A	(4.1)	N/A	37.75	37.75
Transport Security Plan	5.35			N/A	(4.3)	172.802	37 Subpart D	37 Subpart D
Identification of responsible personnel (within Transport security plan)	6.1			N/A	(4.3)	172.802 (b)(1)	N/A	N/A
Identification of security responsibilities (within Transport Security Plan)	2.23			N/A	(4.3)	172.802 (b)(2)	N/A	N/A
Training plan and records	5.15			31.1	REGDOC-2.2.2 (3)	172.704(a)(4)(5)	37.23(a)(2) and 37.43(c)	37.23(a)(2) and 37.43(c)
Records/Recordkeeping				42	REGDOC-2.2.2 (4)	172.704(d)	37 Subpart F	37 Subpart F
Evaluate route risks (within Transport Security Plan)	5.59			N/A	(4.3)	172.802(a)(3)	N/A	N/A
Timely notification of loss	6.5		8.16	N/A	(4.3)	N/A	37.81	37.81
Package Tracking	2.67, 4.20, 5.24, 5.49, 5.67			N/A	(4.2)	N/A		37.79(a)(3) (i)
Vehicle Tracking				N/A	(4.2)	N/A	37.79(a)(1) (iii)	37.79(a)(3) (ii)
Closed Conveyance	5.21, 5.46, 5.63,			N/A	(4.2)	N/A	N/A	N/A



TSUSG Priority 7 Committee

Thank you to the committee members:

Committee Coordinator:

- Augustinas (Auggie) Ong (AS Regulator - NH)

Members:

- Lance LePage (Jade – Canada)
- John Miller (International Isotopes – ID)
- Ken Rose (Y12 – DOE)
- Juan Gonzales (FBI - DC)
- Randy Dillon (Bennett - TN)
- Greg Fulford (Nordion – Canada)
- Waylon Sanford (ER/HS - MI)*
- John Williamson (AS Regulator – FL)
- Mike Wangler (Consultant – DC)
- Eric Skotak (AS Regulator – TX)
- Michael Epp (Nordion - Canada)
- Karen Beckley (USEPA – NV)



Committee Support Staff:

- Paul Gray, Mark Yeager, Katerra Sweat



TSUSG Priority 8 Committee

Status: Active

Mission: To consider training needs for and from TSUSG that are related to security of transport of radioactive sources. Consideration will be given to mechanisms, facilitators, goals, and objectives for identified training needs.

Accomplishments:

- Created a comprehensive guide of existing training resources, programs, availability, and lead organizations responsible for the training.
- Collaborated with the ORNL Web Development Team to design and develop a TSUSG Training Portal.
- Developed a survey to identify nontraditional training opportunities such as tabletop exercises, panel discussions, interactive virtual meetings where an issue is raised and participants discuss it with the aid of a facilitator, etc.
- Path forward: TSUSG Training Portal – impactful, living resource repository and training development.



TSUSG Priority 8 Committee

Thank you to the committee members:

Committee Coordinator:

- Juan C Gonzalez (FBI WMD Directorate)

Members:

- Randy Dillion (Bennett – TN)
- Jimmy Beasley (TSA)
- Greg Fulford (Nordion)
- Kenneth Rose (Y-12 – DOE)
- Brandon Landrum (State Police – SC)
- Waylon Sanford (Michigan State)
- Kenny Self (Y-12 – DOE)
- Jim Blais (FEMA)
- Bradley Loftin (ORNL)
- Michael Epp (Nordion)
- Eric Skotak (DSHS – TX)
- Samuel Meyer (NNSA)
- Glen Rudner
- Melanie Snyder (WIEB)

Committee Support Staff:

- Kattera Sweat, Paul Gray, Mark Yeager, Liz Neunsinger, Shannon Morgan



TSUSG Priority 9 Committee

Status: Active

Mission: Identify real and potential cybersecurity risks associated with planning for, conducting, and shipping/receiving radioactive sources.

- **Accomplishments:**

- Created PC: Began meetings early FY23 to discuss goal and deliverables for the PC
- Divided PC9 experts into accompanying roles within the transportation lifecycle to understand the cyber threats their organizations are facing.
- Began draft of overarching cyber-awareness document to prepare for package of deliverables detailing threats.

- **Plan—**

- **Phase 1:** Transportation Cyber Awareness for TSUSG Members
- **Phase 2:** Mitigation and Defensive Strategies for TSUSG Members

1 Manufacturing/Processing

- Secure Facility
- Pre-employment background screening
- Insider/Outsider Threat Program
- Operational “Need to know”
- Cyber/Ransomware attack on business
- InfoSec “Need to know” for data flow
- Asset attack (cyber attack/sabotage)
- Cybersecurity programs to protect from business impact/interruption
 - Loss of data/IP
 - Loss of reputation
 - Liability from loss

2 Logistics

- Drivers (Insider Threat)
- Transportation Company Office Staff (Insider Threat)
- Cyber/Ransomware attack on business
- Notifications to outside agencies
 - Tribal notifications
 - State/Federal regulatory body
 - Forwarder/Broker
 - State Designees
 - State/Local Police
- How are messages communicated: Must be secure

4 Monitoring/Escorting

- Shipment information (advanced notice)
 - Who has this information
 - Who is protecting this information
 - How do we know information is not subverted
 - Data retention / Deletion
- Monitoring of shipments
 - Spoofing GPS
 - Spoofing Wireless Communications
 - RF/Cellular/Satellite

3 Transportation

- When additional electronics are in conveyance
- Corporate attack – threatening business/reputation/ability to retain security clearance
- Drivers (Insider Threat)
 - Shortage of qualified staff/transfer from DOD to DOE
 - May present risk in lowering qualification requirements to staff fleet
 - Solution: mirror or standardize process to allow for reciprocity
- Transportation Company Office Staff (Insider Threat)
- Covert surveillance of truck (location/potential hijacking intel)
- Overt attack (physical attack on drivers/truck enabled by cyber threats)
- Cyber attack (disabling vehicle/ELD, changing GPS coordinates, etc.)
 - Skybits & Omnitracs – standardized requirement for DOD.
 - Lack of training on how to respond to cyberattacks / No SOPs

5 End User/Port

- Denial of shipment at port (interruption)
- Cyber attack (shutting down port/customer)
- Covert surveillance of operations
- Ransomware



TSUSG Priority 8 Committee

Thank you to the committee members:

Committee Coordinator:

- Sam Hollifield (ORNL)

Members:

- Eric Skotak (Texas DSHS)
- Mark Yeager (ORNL)
- Sam Meyer (ORS)
- Bernie Bevill (AR DOH)
- Payl Gray (ORNL)
- Don Bowes (ORNL)
- Phil Klevorick (Engarde)
- Michael Durkin (Nordion)
- Juan Gonzalez (FBI)
- Michael Epp (Nordion)
- John Sladek (CNSC)
- Brenda Rose (CNL)
- JR Medina (EnGarde)
- Frank LaPierre (Engarde)

Committee Support Staff:

- Kattera Sweat, Paul Gray, Mark Yeager, Liz Neunsinger, Shannon Morgan