



CONTAMINATION CONTROL CAMPAIGN

Related Contamination Control Approaches / Other Tools

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Examining Related Industries

- Other occupational groups also have contamination issues and have developed best practices for preventing employee exposure
- Potential benefits and lessons can be applied
- Possible technology solutions may exist elsewhere
- Targeted industries
 - Healthcare
 - Nuclear power
 - Hazardous materials and remediation

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Healthcare

- **Primary concern:** limit spread of infectious diseases
- **Principal strategy:** application of infection control program
 - Awareness emphasized
 - Apply sterile procedures
 - Isolation of infected patients
 - Extensive use of disinfectants and sanitizers
 - Infection control practitioners

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Healthcare Best Practices

- Extensive hand washing policy
- Application of standard, universal precautions
- Clear facility infection control practices
- Environmental management procedures
- Large degree of oversight by CDC and WHO

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Specific EMS Best Practices

EMS INFECTIOUS DISEASE PLAYBOOK

ASPR

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Nuclear Power

- **Primary concern:** full control of ionizing radiation
- **Principal strategies:**
 - ALARA (as low as reasonably achieving)
 - Extensive use of engineering and administrative controls, site segregation
 - Limitation of exposure (time x proximity = dose)
 - Extensive monitoring; dosimetry




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Radiation Control Best Practices

Radiation Safety and ALARA
As Low As Reasonably Achievable

- 01 - Time
- 02 - Distance
- 03 - Shielding





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Hazardous Materials Response

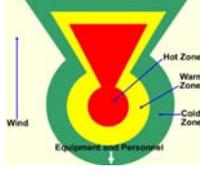
- **Primary concern:** prevent exposure to and transfer of hazardous materials
- **Principal strategies:**
 - Extensive size up of situation before response
 - Hazard control zones
 - Levels of PPE
- Governed by applicable OSHA regulations




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HazMat Best Practices





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Takeaways

- Some practices from other industries can be applied to fire service problem areas:
 - Hand cleaning practice: healthcare
 - Practices to reduce contamination to lowest level in absence of exposure standards: nuclear power industry
 - Application of control zones to fireground/stations: HazMat response and remediation
- Need exists to understand differences and practicalities associated with other industries prior to application to fire service



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Related Industries Questions

- **VIG1** – Which of the related industry vignettes provide useful information as related to fire service contamination control?
- **VIG2** – Was any of the information provided on related industries a good representation of best practices?
- **VIG3** – Will the related industries/vignettes presented provide useful information for drafting SOPs/SOGs for your organization?



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Related Industries Questions

- **VIG4** – What additional tools do you need to support you in your efforts to address fire ground contamination issues?
- **VIG5** – Do you think the vignettes you saw would be helpful tools for building awareness of and gaining support for your contamination control efforts?
- **VIG6** – What additional vignettes should be considered?

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Other Tools

- Links to different organizations indicating resources for contamination control
- List of specific unaddressed research needs
- Glossary of terms
- General forum for online questions and answers
- Specific social media connections

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Key Organizations

- Wealth of information from other existing fire service oriented groups
- Value in linking content from other organizations



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Firefighter Cancer Support Network

- Comprehensive white paper and broad recognition by fire service
- Statistics and related information substantiating need for awareness
- Extensive library and list of resources



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Capturing Research Needs

- Various groups have indicated research priorities and needs
 - Uncertain how industry and researchers react to these existing lists
- Possible best ways to communicate need
 - Foster direct communication with DHS
 - Hold stakeholder meetings
 - Conduct periodic review of research activity
 - Summarize/list past and current research

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Glossary of Terms

- Fire service and industry should have clear terminology, particularly when addressing technology based issues
- Some terminology created by NFPA
- Could be activity associated with general oversight or advisory committee

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Online Question / Answer Blog

- Possible avenue for information exchange
- Should restrictions apply?
 - Balanced responses
- Can periodic topical areas be developed?
 - Directed questions
- True question/answer format



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Q&A Forum/Glossary Questions

- **QA1** – Do you think your organization members will use the Q&A forum and the glossary?
- **QA2** – Should any controls be in place to control access or put constraints for how the Q&A forum is managed?
- **QA3** – Do you think there is value in having an online glossary?
- **QA4** – Do you think these tools will provide useful forums for creating awareness and affecting change (e.g. in your department or organization)?

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