NIOSH STANDARDS DEVELOPMENT PROCESSES

POSSIBLE IMPLEMENTATION STRATEGIES FOR NBC STANDARDS
Approval Program Structure

• Existing
  – Respirator classes
  – Requirements for all classes
  – Conditions of use for all classes

• Additional or Revised Requirements
  – Rulemaking
  – Existing authorities
Respirator Use

**IDLH & OXYGEN DEFICIENT**
- Unknown/Unpredictable Atmosphere
- Oxygen Deficient
- Limited Entry or Escape
  - SCBA
  - Airline with escape bottle
  - Escape-only Gas Mask (not for Oxygen deficiency)
- Full Face Protection

**NON-IDLH**
- Known Atmosphere
- Predictable Atmosphere
- Below IDLH Value
- Above Exposure Limit
  - Air Purifying Respirators
  - Effective against agent
  - Within APF
- Full Face Protection
Implementation

• **Use of Existing Authorities**
  – § 84.110 and § 84.190 for new gases and vapors
  – § 84.63(c) for new tests and evaluations
  – § 84.60 (a) for existing requirements applied to different class

• **Public Process and Rulemaking**
  – § 84.60 (b) for a new class
  – Rulemaking
Biologicals and Radiologicals

- Existing Particulate Filter Requirements
  - P-100 or HEPA
- Additional Tests with § 84.63(c) or Rulemaking
  - LRPL (Laboratory Respirator Protection Level)
- Special conditions of use
Chemical Agents

- New Gas or Vapor Test for APR
  - § 84.110 or § 84.190
  - New agents based on vulnerability assessments
  - Test parameters based on modeling
- Additional Tests With § 84.63(c) or Rulemaking
  - Permeation
  - System integrity
  - LRPL tests
- Special conditions of use
SCBA or SAR with escape bottle

IDLH

50X Exposure Limit

APR

Exposure Limit

No respiratory needs
Summary

- SCBA Identified as First Priority
- Defined New Requirements Need to be Added by Policy or Rulemaking Changes
  - Policy can be implemented in months
  - Rulemaking may take years
  - Direction based on extent of changes
- Scientific & Technical Information is Driver
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