

# Evaluating the stability of stockpiled respirators- FY17 (93902JV)

## **Objective**

To facilitate the design and maintenance of respirator stockpiles for large scale public health emergencies by enumerating and analyzing significant respirator degradation mechanisms that could affect the performance of respirators stockpiled for lengthy periods.



## **Applicable Standards**

- 42 CFR Part 84

## **Key Partners**

- State Stockpiles
- Strategic National Stockpile (SNS)
- 3M, Gerson
- Conformity Assessment

## **Stakeholders**

- Stockpile/Hospital administrators
- Healthcare workers
- NGOs
- Respirator manufacturers

## **Timeline**

- Phase 1: **2013 - 2014**
- Phase 2: **2014 - 2016**
- Phase 3: **2015 - 2017**
- Phase 4: **2017 - 2018**

## **Project Scope**

- 1) Protocol development, partnership development
- 2) Develop test procedures for components, eval. fit of aged FFR
- 3) Assess effect of storage conditions, develop accelerated aging protocol
- 4) Communications and outreach

## **Milestones FY17**

- Q1 IRB Approval for fit testing
- Q2 Fit testing started
- Q3 Submit strap paper to e-clearance
- Q4 Complete fit testing

## **Outputs**

- Stockpile project final report
- Letter to Manufacturers and Other Interested Parties
- Manuscripts published in peer-reviewed journal
- Presentations at national/international conferences & stakeholder meetings

## **Expected Outcomes**

- Stockpile administrators better prepare for pandemics and other public health emergencies
- Respirator manufacturers develop suitable respirators for stockpiling
- NPPTL considers shelf life claims of respirators submitted for certification
- Government agencies use project information to develop guidance documents and recommendations for efficient stockpiling
- Other researchers utilize project findings to conduct further research on performance of aging respirators