

# Investigation of turnout clothing Contamination and Validation of Cleaning procedures– FY17 (93950MF)

## Objective

Identify potential sampling and analysis strategies for assessing contaminant levels on firefighter turnout clothing. Qualify and/or quantify individual chemicals and chemical classes found on soiled firefighter turnout gear. Assess NFPA cleaning parameters and make recommendations to NFPA standards committee(s) for changes to the method if needed.



## Applicable Standards

- NFPA, 1851 (Selection, Care, and Maintenance (SCAM) Ensembles),

## Key Partners

- NFPA/NFPRF
- IAFF, IAFC, NVFC

## Stakeholders



## Project Scope

- Determine specific sampling and testing procedures that will be used to assess contaminant levels in turnout clothing materials.
- Utilize findings to support revisions to standards, develop future NPPTL research, and educate the fire service

## Milestones FY17

Develop contamination method  
Develop extraction technique  
Develop methods of analyzing extract

## Outputs

- Provide the basis for specific requirements and for appendix information to be incorporated into the future edition of NFPA 1851, *Standard for the Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*.
- Presentations to stakeholders and SDOs (FDSOA, IAFF, FIERO)

## Outcomes

- Use findings to develop cleaning parameters
- Provide findings and information to SDOs to support revising existing standards and in developing new standards
- New research projects

Updated: 3 April 2017