OSAC RESEARCH NEEDS ASSESSMENT FORM

Title of research need: Fire Investigation Component of Publicly Funded Compartment Fire Research

Keyword(s):   Compartment fires, enclosure fires, fire investigator education, fire origin

Submitting subcommittee(s):   Fire and Explosion   **Date Approved:**

(If SAC review identifies additional subcommittees, add them to the box above.)

Background Information:

1.   Description of research need:

A number of publicly funded studies have been conducted that investigate the impacts of ventilation on fire patterns in compartments. Some of these studies are related to fire investigation, but many have other purposes. There is a large opportunity present to make small modifications to publicly funded compartment fire research that could make it very beneficial to a large range of fire investigation applications. Research is needed to determine the most effective way to implement this recommendation.

2.   Key bibliographic references relating to this research need:

3a.   In what ways would the research results improve current laboratory capabilities?

This research will help laboratories to better determine which instrumentation is appropriate for large scale fire testing as well as what data should be documented and published.

3b.   In what ways would the research results improve understanding of the scientific basis for the subcommittee(s)?

3c.   In what ways would the research results improve services to the criminal justice system?

This research will help the fire investigation community to apply a more systematic approach to the results of fire pattern analysis.

4.   Status assessment (I, II, III, or IV):   I

	Major gap in current knowledge	Minor gap in current knowledge
No or limited	I	III

current research is being conducted		
Existing current research is being conducted	II	IV

This research need has been identified by one or more subcommittees of OSAC and is being provided as an informational resource to the community.

Approvals:

Subcommittee   Approval date: [   ]

(Approval is by majority vote of subcommittee. Once approved, forward to SAC.)

SAC

1. Does the SAC agree with the research need?   Yes [ ]   No [ ]

2. Does the SAC agree with the status assessment?   Yes [ ]   No [ ]

   If no, what is the status assessment of the SAC: [   ]

Approval date: [   ]

(Approval is by majority vote of SAC. Once approved, forward to NIST for posting.)