



USTRANSCOM Science and Technology

Toxic Industrial Chemical (TIC) Tests

Project Summary: Study aircraft material and structural effects from chlorine and ammonia chemical releases. This effort deals with is “What happens to critical aircraft materiel (large frame aircraft in particular) after being exposed to a corrosive toxic industrial chemical?”



Return on Investment: The return on investment for this effort will be the ability to “right-size” the response in the event of equipment exposures to chlorine or ammonia. The risks of overreacting are accepting unnecessary operational constraints resulting in mission delays and the ripple effects of untimely materiel deliveries.

Duration of project: FY10

Participants: Air Mobility Command (AMC), U.S. Air Force

Project advocacy (funding or otherwise): USTRANSCOM, AMC

Transition: The results of this effort will benefit all services since all use these or similar materials. There is a fundamental knowledge gap about how military materials of interest react to realistic field exposures of TICs such as chlorine or ammonia.

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