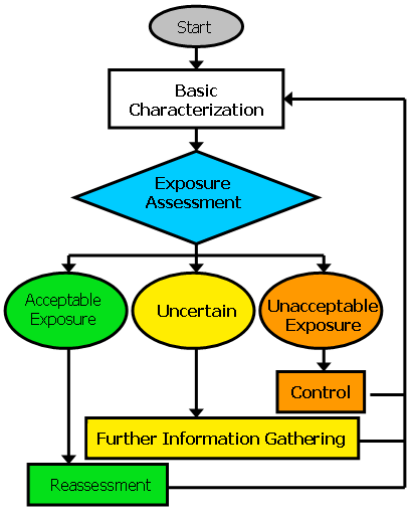
## Sustainability In-depth: Exposure Assessment & Management- Program and Performance

3M continuously strives for better understanding and management of potential exposure risks early in product development. This effort supports our vision for a “Safe and Healthy People, Products, Planet.” for the benefit of employees, customers and shareholders.

### Strategy

The American Industrial Hygiene Association’s (AIHA) Exposure Assessment and Management Strategy is a well-known approach for recognizing, understanding and managing potential exposure risks in manufacturing and products throughout the product life cycle. 3M uses the AIHA strategy to design and implement effective risk-based exposure assessment, management tools and systems worldwide. This strategy is flexible and can be implemented throughout the various product life cycle stages. The main components of the AIHA strategy are illustrated in the following figure that shows how information and data are integrated into a risk-based continuous improvement process.



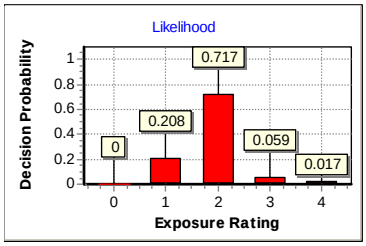

3M has created and implemented business processes and systems using the AIHA strategy that leverage process, material and composition data and information to provide assurance that all exposures are understood and properly managed. This comprehensive exposure assessment and data management system is integrated with several other data systems for use by 3M EHS professionals.

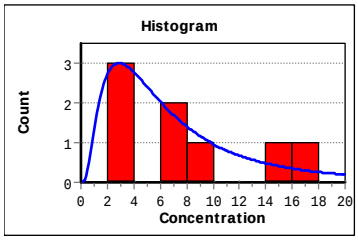
Basic Characterization: Leverage data systems and existing information to collect relevant information needed to characterize the workplace, work force, environmental agents, and materials or product uses. Today’s powerful software platforms and databases have resulted in integrated systems that were just a dream a decade ago.

Qualitative Exposure Assessment: Exposure assessments are fundamental to all exposure management activities for manufacturing and products throughout the product life cycle. After gathering the important basic characterization information, initial exposure assessments and their certainty can be documented for each potential exposure task or product use case. This baseline exposure assessment information becomes the critical foundation for effective and efficient exposure management programs -- including personal protective equipment, hazard communication, exposure monitoring

plans, respiratory protection, ventilation management, medical surveillance and hearing conservation programs. Exposure assessments address both material toxicity and exposure potential, thus enabling risk-based prioritization for additional information gathering and/or exposure control efforts to focus on the most important areas first.

Quantitative Exposure Assessment (Monitoring): Facility sampling plans are created annually in order to verify baseline exposure assessments or investigate questions by collecting representative exposure samples on highest risks. The results are analyzed, interpreted and documented to determine whether the potential exposures are acceptable, require exposure controls or need more sampling data to properly characterize the exposure potential. Using newly available and very powerful statistical tools, 3M industrial hygienists worldwide can validate a select group of baseline exposure assessments to ensure more efficient management of the highest risk potential jobs.




In addition, these new statistical tools provide output in a probability format that is much easier to understand and communicate to all stakeholders. The probability analysis is made using the AIHA exposure control categories that provide very efficient and effective methods to drive actions.

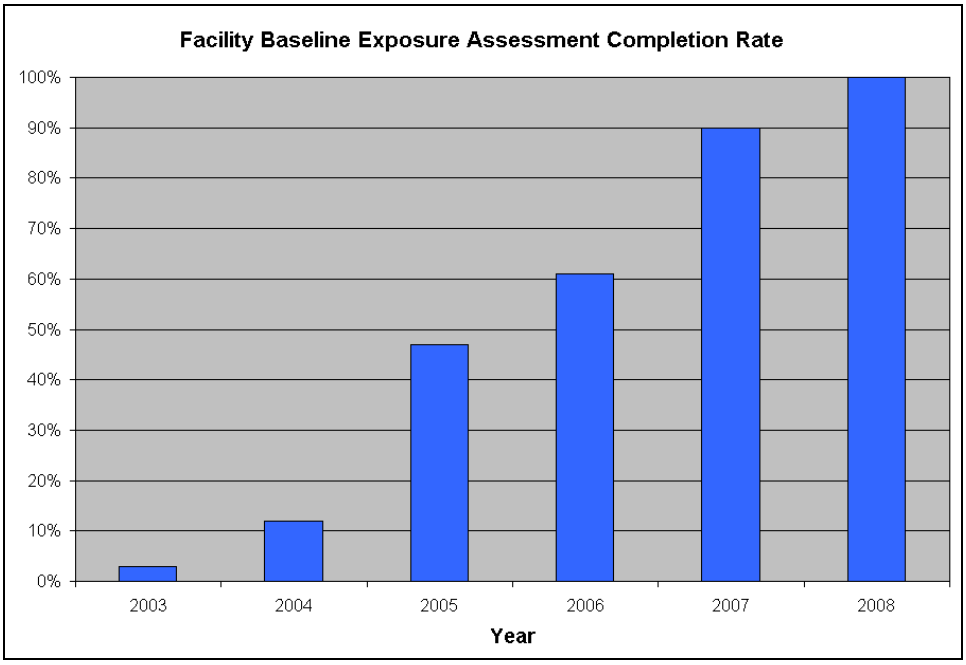
Reporting and Action Items: 3M has developed and implemented global tools to communicate exposure assessment results to all stakeholders in their local language, and to track action items for controlling any identified issues. These tools are integrated with the comprehensive exposure assessment and management system as well as other information systems to help ensure timely and accurate reporting for compliance and stakeholder communication.

Implementing Controls and/or Follow-Up: Excellent progress in baseline exposure assessments, validation of qualitative exposure assessments and reporting has created a platform to further drive sustainable exposure controls across 3M global operations. Sustainable exposure controls must be efficiently implemented to effectively manage risk across the product life cycle. 3M global data and information systems have led to a sustainable exposure control program that will help ensure that risks continue to be properly indentified and managed – all to the benefit of employees, customers and shareholders.

## Goals and Initiatives

In 2003, 3M set a corporate goal to document all baseline exposure assessments into a single global system for more consistent and efficient exposure risk management. This goal helped stimulate many positive efforts across several of 3M's exposure assessment and management programs (e.g. Noise Control, Ventilation Management). Plant, division and country teams together with corporate industrial hygienists worked hard to leverage their knowledge and efforts to achieve this goal across 3M locations worldwide.

## Performance




The completion of this baseline exposure assessment effort became the foundation for more efficient implementation of all other exposure risk management programs. It also led to new forward-looking programs including facility-specific sustainable exposure control plans and metrics. These exposure control plans will support actions toward the most sustainable control options available to maximize benefit to employees, customers and shareholders.

## Continuous Improvement

More powerful and better integrated web-delivered exposure assessment and management software systems will be implemented across all manufacturing sites globally by the end of 2009. All assessments and reports from the previous system will be converted into the new systems by the end of 2010.