

William Lape**Project Director – SCS Engineers: Tracer Environmental****Education:**

- A.A.S Electrical Engineering Technology – Purdue University - 1991
- B.S. Electrical Technology – Purdue University – 1993

Certifications:

- Refrigerating Engineers and Technicians Association (RETA) Certified Industrial Refrigeration Operator (August 2013 – current)
- Refrigerating Engineers and Technicians Association (RETA) Certified Refrigeration Service Technician (November 2018 – current)
- Refrigerating Engineers and Technicians Association (RETA) Certified Assistant Refrigeration Operator (April 2015 – current)
- International Institute of Ammonia Refrigeration (IIAR) IIAR2 Certificate – Feb 2017
- International Institute of Ammonia Refrigeration (IIAR) IIAR4/5/8 Certificate – Mar 2018
- International Institute of Ammonia Refrigeration (IIAR) PSM/RMP Certificate – Mar 2019
- CVI Certified for U.S Dept. of Homeland Security CFATS

Professional Experience:

Mr. Lape is a Project Director for the Risk Management Group at SCS Tracer Environmental. His responsibilities in this role include outlining project budgets, organizing project schedules, and ensuring a quality project is delivered.

Mr. Lape has been involved in the development and deployment of standardized Risk Management and Process Safety Management Programs for over forty plants during his tenure with Dean Foods from Oct 2010 through June 2018. His initial responsibility was for the process safety program implementation as a Plant Engineer for the Dean Foods plant in Woodbury, MN. In 2014, he was promoted to Sr. Mgr. Process Safety for Dean Foods, responsible for providing Process Safety Management support to all of the Dean Foods manufacturing facilities that utilized ammonia as a refrigerant. In 2016, he was promoted to Director, EHS Programs and Compliance. In this role, Mr. Lape led a team of professionals who provided PSM/RMP support, as well as support for storm water, wastewater, and air permitting at the company's facilities.

Mr. Lape has developed EPA Risk Management Program submittal documentation (Risk Management Plans) for over 20 facilities. This included developing Executive Summaries that detail each facility's safety features, management structure, and potential risks associated with the process for EPA review and approval, along with conducting off-site consequence analyses.

Mr. Lape's experience includes all aspects of preparing a PSM program. This includes participating in Process Hazard Analyses as the team leader and recorder, and preparing qualitative risk analyses. Mr. Lape is also experienced in developing Process Safety Information packets, drafting Piping and Instrumentation Diagrams, writing Standard Operating Procedures, as well as developing and conducting initial and refresher training for Ammonia Refrigeration Operators. Mr. Lape has also been involved in auditing PSM programs, performing over 20 audits since 2015, helping to ensure that facilities are keeping their employees and the public safe, while maintaining compliance with regulations. In addition to auditing the safety and compliance programs for ammonia refrigeration facilities, Mr. Lape is often called upon to audit the mechanical integrity of those systems.

Mr. Lape has working closely with regulatory agencies, developing responses to Requests for Information and Notices of Violation. In addition, Mr. Lape has participated in conferences with both OSHA and EPA, acting as a subject matter expert for ammonia refrigeration and the relevant codes and standards.

Mr. Lape is heavily involved in Ammonia Refrigeration industry groups, such as the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), the International Institute of Ammonia Refrigeration (IIAR) and the Refrigerating Engineers and Technician's Association (RETA). Mr. Lape served as a contributor for

the 2018 edition of the ASHRAE Refrigeration Handbook. Mr. Lape has participated in the development of standardized guidelines for Process Safety Management and Risk Management Plan programs for the ammonia refrigeration industry, as well as Ammonia Refrigeration Management guidelines for facilities not subject to the PSM and RMP regulations. In addition, Mr. Lape acts as an advocate for end users on the IIAR Standards Committee, helping to ensure that IIAR's standards are written with the end user in mind, while increasing the safety of the industry.

Additional Training:

- RCRA & DOT Hazardous Materials Reporting – 2013
- Ammonia Refrigeration System Safety – University of Wisconsin – Apr 2011
- Principles and Practices of Mechanical Integrity in Industrial Refrigeration Systems – University of Wisconsin – Nov 2011
- Industrial Ammonia Refrigeration – Operator I – Garden City Community College – Sep 2012
- Industrial Ammonia Refrigeration – Operator II – Garden City Community College – Jul 2013
- Industrial Ammonia Refrigeration – Operator III – Garden City Community College – Aug 2013
- Ammonia Inventory Calculations – Industrial Refrigeration Consortium – Aug 2014
- Engineering Safety Relief Systems – Industrial Refrigeration Consortium – Sep 2014
- PHA Leadership – IHS, Inc. – Nov 2014
- Process Safety Management Audits – University of Wisconsin – Jan 2015
- Train the Trainer – Refrigerating Engineers and Technicians Association – July 2017
- 24 hour Emergency Response Training, 29 CFR 1910.120q, Nov 2016; Refresher Oct 2017
- Engineering Safety Relief Systems Version 2 – Industrial Refrigeration Consortium – Jun 2018

Presentations:

- “Managing Changes that AFFECT the Covered Process - 29 CFR 1910.119(l)”, RETA Northern Plains Safety Day, Alexandria, MN, May 2015.
- “The Importance of Continuous Improvement in Ammonia Refrigeration Systems”, Marcus Evans 3rd Process Safety Conference for Food and Beverage Industries, Houston, TX, Sep 2016.
- “Management of Change – What does it Really Cover”, Industrial Refrigeration Consortium Research and Technology Forum, Madison, WI, May 2016.
- “EPA and IIAR Bare Minimums”, Ammonia Safety Day, Salt Lake City, UT, Feb 2017.
- “Management of Change: What Really Affects the Covered Process”, IIAR National Conference, San Antonio, TX, Feb 2017.
- “Management of Change Workshop”, RETA National Conference, Hershey, PA, Sep 2017.
- “Overview of Mechanical Integrity for Equipment”, IIAR National Conference, Colorado Springs, CO, Mar 2018.
- “Surviving a General Duty Inspection”, Industrial Refrigeration Consortium Research and Technology Forum, Madison, WI, May 2018.
- “Surviving a General Duty Inspection”, RETA Central Florida Ammonia Refrigeration Regional Conference, Orlando, FL, Aug 2018.
- “Management of Change Workshop”, RETA National Conference, Dallas, TX, Nov 2018. “Surviving a General Duty Inspection”, RETA Blue Ridge Safety Day, Lyndhurst, VA, Sep 2019.
- “The Fernie Disaster – Lessons Learned”, RETA Northern Plains Chapter Meeting, Hopkins, MN, Jan 2019.
- “RAGAGEP: Defining Documenting Compliance, & Updating”, Manufacturer’s Education Council EHS Symposium, Cincinnati, OH, Mar 2019.
- “Surviving a General Duty Inspection”, RETA Northern Plains Safety Day, Alexandria, MN, May 2019.

Publications:

- “Employee Training Under PSM-RMP” RETA Breeze, May-June 2019
- “Mechanical Integrity: Documentation Discrepancies” RETA Breeze, March-April 2019
- “Managing Organizational Change: How it impacts your ammonia refrigeration system.” RETA Breeze, January-February 2019.
- “Understanding Compliance” IIAR Condenser-December 2018

- “PSM-RMP/ARM – Reflections and Planning for the New Year” RETA Breeze, November-December 2018.
- “Food for Thought: PSM-RMP Lessons from the Trail” RETA Breeze, September-October 2018.
- “Mechanical Integrity for Ammonia Refrigeration Systems” RETA Breeze, September-October 2018.
- “PSM-RMP Compliance Audits: Who Should Perform Them: Part 2?” RETA Breeze, July-August 2018.
- “Management of Change: Have we Captured All of the Impacts of the Change?” RETA Breeze, July-August 2018.
- ASHRAE Refrigeration Handbook, Contributor, 2018.
- “PSM-RMP Compliance Audits: Who Should Perform Them?” RETA Breeze, May-June 2018.
- “Process Hazard Analyses: Consideration of External Events,” RETA Breeze, March-April 2018.
- “‘Safer’ Refrigerants,” Psiktikos, July 20, 2018
- “‘Safer’ Refrigerants,” RETA Breeze, Jan-Feb 2018.

Affiliations:

- RETA National Board Member (2016 – current)
- RETA Certification Committee Member (2011 – current)
- RETA National Conference Committee Member (2016-current)
- IIAR Code Committee Vice Chairman (2014 – Oct 2018)
- IIAR Standards Committee Member (2016 – current)
- IIAR Compliance Guidelines Committee Member (2016 – current)
- American Society of Heating, Refrigeration, and Air-conditioning Engineers Member (2016 – current)