

Quarterly Report – Public Page

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Prepared for: Department of Transportation/Pipeline and Hazardous Materials
Safety Administration

Project Title: Reliability of Subsurface Safety Valves

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Results and Conclusions:

The first task of the project is data collection. The Battelle team has divided the task into three parts: literature review, expert identification and elicitation, and database creation and organization. The literature review has collected 30 references related to underground gas storage (UGS), well integrity assessment, and well risk assessment. References have included industry documents, academic papers, US Government reports, and American Petroleum Institute Reports. The references are being reviewed and are providing links to additional references that will be collected and reviewed. Additionally, they are providing information on additional data and databases that were not identified in the proposal. Furthermore, the references are also providing example methodologies for statistical assessment, portions of these methods may be adopted into the analyses if the methods and the data in our final database are compatible.

Twelve industry and academic experts have been identified. They have experience with well construction, wells completions, well workovers, and UGS well operations. The Battelle team will reach out to the experts with an initial list of questions with respect to SSSV installation, observation, and use including positive and negative aspects. Battelle is currently developing the initial list of questions for distribution.

The Battelle team has identified state, federal, and international agencies that may have data related to UGS well construction, operation, and reentry. Furthermore, Battelle has also purchased access to the WellMaster Database (<https://www.exprosoft.com/products/wellmaster-rms/>) and started downloading and organizing data for use in Task 2.

Plans for Future Activity:

Battelle plans to continue with Task 1, completing it at the end of the next quarter. Battelle will provide a report discussing the literature review, interviews with subject matter experts, and state incidence occurrence reports.