

CASE STUDY

# Software Engineering Solution for Renowned Midstream Data Book



Serving the midstream energy industry with cooperative producer-supplier solutions, GPSA publishes its Engineering Data Book as a comprehensive resource for up-to-date technical and design information. It is considered the global authority on midstream practices and procedures, used by members of GPA Midstream Association, industry organizations, and universities. GPSA enlisted Audubon to modernize the Engineering Data Book for digital management and application.

## Challenge: Migrate 1,000-page technical resource to collaborative digital publishing

After 80 years of being traditionally published in print and later online, the renowned [Engineering Data Book](#) needed an upgrade for full digital management and accessibility. [GPSA](#) required a robust, reliable software solution to handle more than 1,000 pages of engineering practices and procedures for refining, transmission, and petrochemical operations. Furthermore, because the data book represents a compilation of committee-approved content regularly assessed by reputable technical specialists from both midstream suppliers and operators throughout GPSA and [GPA Midstream](#), moving the book online meant complex group management functionality with strict access rights.

**CLIENT:** GPSA

**INDUSTRY:** Energy + Chemicals

**LOCATION:** Tulsa, Oklahoma

**SERVICES:**

Engineering + design

Implementation + startup

Operations + maintenance

*“Our goal for GPSA was to create a client-focused, easy-to-use platform for the data book’s committee, contributors, and users alike. The software engineering team at Audubon is proud to have boosted functionality, performance, and access for this critical industry resource.”*

**Brandon Gray**

Director of Software Development  
Audubon



# Solution: Engineer custom software platform for integrated publication management

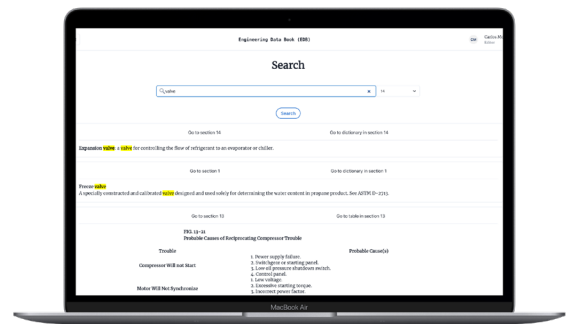
The Audubon software development team delivered a comprehensive publication management platform for GPSA. The team engineered the system to be a user-friendly, efficient, and adaptable tool addressing the organization's specific requirements for developing, editing, validating, and publishing the large data book. Designed as a cloud-based platform to integrate seamlessly with GPSA's website credential and group management system, the software enables access to the complete Engineering Data Book for existing registered users without the need for additional configurations.

## Result: Streamline publishing + elevate UX with high-performance, cost-effective solution

Audubon's [software engineering solution](#) for GPSA revolutionized the Engineering Data Book. The new publication management platform streamlines development, editing, validation, and publishing activities previously completed through a time-consuming manual process. With the custom engineering and expert implementation by Audubon, GPSA significantly improved internal content workflows due to adaptable data input, built-in collaboration tools, and full administrative control.

The new digital Engineering Data Book also elevates the user experience (UX) for midstream professionals. The powerful search function gives users quick, relevant results from even high-volume datasets. Real-time content updates mean that users have the most accurate technical expertise at their fingertips. Simple content conversation to PDF allows for fast, easy sharing of best practices and procedures across the industry.

For GPSA, Audubon delivered a robust, reliable, modern software engineering solution for digitizing the Engineering Data Book, balancing high performance with cost-effectiveness, efficiency, and flexibility—and ensuring scalability for the future.



## Key platform features

- Advanced search capability utilizing Elasticsearch
- PDF generation for content distribution
- Centralized information sharing
- Personalized data management tools for input, versioning, + tracking
- Real-time content updates
- Administrative security + control
- Cloud infrastructure for integration + flexibility

*“The Engineering Data Book has been a staple for midstream professionals for many years. With the new software platform from Audubon, the best technical information can be delivered to users much faster than before. We are eager to see the new data book serve new generations of industry professionals for decades to come.”*

**Martin Erne**  
Vice President, Technical Services  
GPA Midstream Association