



Aug 29th, 2025

CRFI-0201-SEC2600000001

Tara Lyle
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RECEIVED

2025 AUG 29 PM 12:13

RE: Request for Information # CRFI SEC2600000001

WV PURCHASING

Dear Ms. Lyle,

Dataview Consulting LLC is pleased to respond to your Request for Information No. #CRFI SEC2600000001 for One-Stop-Shop Permitting for the State of West Virginia.

The Dataview Team members have worked on multiple Public Sector projects and have extensive experience supporting, building, and customizing enterprise level applications. Our team consists of Senior Solution Architects, ERP (Enterprise Resource Planning) domain experts, Business Analysts, Software Developers and System Administrators. Our agile and customized-to-client approach methodology ensures that we meet our client's specific needs and that we adapt to and fully support our client's way of doing business. Our current clients include:

- ERP Board, State of West Virginia
 - Includes staffing and projects for ERP Board, Department of Transportation, Department of Natural Resources & Finance Division, State Fire Marshals Office, and Financial Accounting and Reporting Section (FARS)
- Shared Business Services, State of Alabama
- Los Angeles County Office of Education

Our work for the Department of Natural Resources and State Fire Marshals in helping with implementing Licensing and Permitting solutions is especially relevant for this RFI. For these projects our team worked with the department staff to document requirements, design, develop and implement a robust enterprise application to replace the legacy access database application.

Dataview looks forward to expanding its partnership in the State of West Virginia and offers its services to the West Virginia Department of Administration Cabinet Secretary's Office.

Sincerely,

A handwritten signature in black ink that reads 'Sanjeev Musafir'.

Sanjeev Musafir
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Response

3.2.1 Please describe your ability and methodology to establish the One-Stop-Shop permitting solution.

3.2.1.1 Background and Abilities

Dataview Consulting was formed in 2013 and provides staff augmentation, technical consulting, operations and software development services focused on addressing the needs of the public sector. The founders of Dataview and its key staff have extensive experience supporting and implementing large and complex Enterprise Resource Planning (ERP) products as well as designing and developing enterprise custom solutions for public sector clients. Additional details on our services are available at www.dataview.com.

We have extensive public sector experience in developing web based custom applications, implementing COTS (commercial off-the-shelf applications), integrating ERP systems, building technical infrastructures, business intelligence and data warehousing. Our staff are experts in multiple technologies, including C#, .Net, SQL Server, JAVA, Angular and Oracle. The following Dataview services are relevant to the needs of the One-Stop-Shop Permitting RFI:

- Design and Development
 - *Consulting services* to work with agencies in documenting requirements and business processes
 - *Business Process Improvement* service to identify areas of improvement by leveraging new technologies
 - *Agile Development services* to iterate on product development and implementation with continuous feedback from product owners
- Deployment
 - *Data Integration and interfaces* services to integrate with ERP and Payment/Treasury systems
 - *Data Conversion services* to convert existing legacy data to the new implementation
 - *Infrastructure support and maintenance* services to set up servers with necessary reliability and availability
- Post Go-Live
 - *Managed services for production* and non-production environments to support the agencies in operating the system
 - *System and Database Administration* services to augment the State IT teams as needed

We would like to highlight some of our relevant experience working with the State of West Virginia and other public sector clients:

- **State of WV ERP Board (2014 – Present)** – IT Staff Augmentation for Operational Support for CGI Advantage HRM and Financial ERP application, System Administration, ERP Implementation, Project Management and Software Development.

- **State of WV Department of Highways (DOH) (2019 – Present)** – Consulting Services and Application Development
- **State of WV Department of Natural Resources (DNR) (2021 – Present)** - Consulting Services and Application Development
- **State of WV Fire Marshal (2024 – Present)** – Consulting Services and Permitting Application Development
- **State of WV Finance Division - Financial Accounting and Reporting Section (FARS) (2018-Present)** - Consulting Services, CAFR or ACFR modeling, schedule of Expenditures of Federal Awards (SEFA) Application and Annual Leave Balances.
- **State of Alabama – Department of Finance (2017 – Present)** – IT Services for Operational Support for CGI Advantage Financial ERP system, Application Upgrade, Infrastructure Upgrade, System Administration and Software Development
- **LA County Office of Education (2018-Present)** – Business Intelligence development for Budget, HR and Financial using infoAdvantage and Power BI

The One-Stop-Shop Permitting solution will require both consulting expertise and experience implementing enterprise software solutions. Below are some additional details of our consulting projects and custom software development for the State of West Virginia that demonstrate Dataview experience implementing enterprise software development projects for the State of West Virginia:

West Virginia Department of Highways - Capital Project Management System (“Hub”) – A custom application for the wvDOH based on .NET core framework. The application is FHWA (Federal Highways Administration) certified and used by up to 5,000 users across 55 counties. Some of the application features are listed below:

- Single Sign-On (SSO) with OASIS portals (MyApps and OneLogin)
- Security framework for multiple levels in the organization
- Workflow engine to support complex processes within the divisions, central groups, and FHWA
- Integration with FHWA system and wvOASIS ERP system
- Integration with Power BI for Business Intelligence
- Attachments for supporting documentation

West Virginia DNR Land and Streams Permitting application - A custom application for the WV DNR Land & Streams team based on .NET core framework. The application allows the team to migrate from its current Access Database based application and paper forms to a state-of-the-art web application supporting web-based application forms for citizens and companies and integration with the States ERP and State Treasurer ePay system for accounts receivables. The new application allows DNR to streamline and automate all the processes associated with Land and Streams Permits.

The DNR Land & Streams application includes the following features

- Support of 28 form types
- Public Portal for citizens and companies and internal portal for DNR staff.
- Workflow engine to manage the workflow activities between external portal and internal portal
- Support of document attachments
- Automatic invoice generation for customers
- Invoice second and final notices based on specific system configuration
- Automatic invoice/billing generation in wvOASIS ERP system
- Integration with STO to support DNR/STO Online payments

- Support check-based payments
- Automatic payment generation in wvOASIS ERP system
- Reconciliation of invoices and payments
- Automatic Permits renewals based on permit types
- Support of agents who are used as proxies for companies
- Custom letter generation for approval and denial among others

West Virginia DNR Remittance Application – Previously DNR Remittances were submitted weekly using Excel spreadsheets which are then collected by the central group. The central group then reviews the submission and manually enters the transactions into the ERP system to book the revenues. Dataview built a custom .NET Core application for DNR to allow their Parks to enter daily remittances for review and approval. The application provides DNR with the ability to:

- Single Sign-On (SSO)
- Data entry of checks, Credit Card and Cash Receipts by Parks staff
- Automatic calculation of included taxes
- Workflow process for DNR staff to review and approve remittances
- Integration with wvOASIS Accounts Receivable system to generate and track cash receipts

West Virginia Fire Marshals Permitting and Licensing Application – Dataview is currently implementing a Permitting solution for the various licenses and permits issued by the agency. The project has gone live with the initial set of licenses and rolling out additional permits and licenses over the next 3 months. The wvFMO permitting application includes the following features:

- 18 permit types
- Single Sign-On (SSO)
- External portal for applicants
- Internal portal for Fire Marshals staff
- Multiple dynamic workflows based on permit types
- Exam scheduling and seat allocation
- Ability to upload supporting documents as attachments
- Online integration with ePay using STO payment gateway for payments
- Integration with wvOASIS to reconcile payments with cash receipts

Finance Division Financial Accounting and Reporting Section (FARS) – Schedule of Expenditures of Federal Awards (SEFA) Application – Dataview upgraded an Access Database application to SQL Server Database with a .NET Core Web Application. This allowed the Finance Division to have department users do self-directed web-based data entry of financial audit data instead of using emails and spreadsheets for data entry. The application provides a new year rollover process based on prior year entries.

3.2.1.2 Implementation Methodology for the One Stop Shop Permitting Solution

Dataview Consulting will provide a complete set up implementation service that follows a phased project implementation based on **Agile Project Management**, that emphasizes collaboration, continuous delivery, and responsiveness to change. Our approach has been followed and refined based on our prior experiences with enterprise software development projects.

Agile methodology is a flexible and iterative approach to application development that emphasizes collaboration, customer feedback, and rapid delivery of functional software. Instead of following a rigid,

linear process, Agile breaks development into small, manageable units called **sprints**, typically lasting 1–4 weeks. Each sprint begins with planning, followed by design, development, testing, and review. Agile encourages continuous improvement through regular retrospectives and adapts to changing requirements by maintaining a prioritized backlog of tasks. Teams work closely with stakeholders to ensure the product evolves in alignment with user needs, making Agile especially effective for complex or evolving projects.

Agile methodology in a permitting project enables teams to deliver incremental improvements to the permitting process through short, focused development cycles called sprints. Instead of waiting for a full system overhaul, Agile allows for continuous delivery of features such as online application forms, OCR-based document uploads, and automated compliance checks. Each sprint begins with planning sessions involving stakeholders like environmental agencies or municipal departments, followed by development, testing, and review. Feedback from applicants and reviewers is quickly incorporated into the backlog, ensuring the system evolves to meet real-world needs—and aligning with goals of WV Code §5A-13-1 and Legislative Rule 148CSR25. Agile adaptability makes it ideal for navigating complex workflows and changing compliance requirements in government permitting.

We believe an agile project delivery will offer the State the following benefits in the implementation of the One Stop Shop permitting Solution

Benefit	Description
Accelerated Delivery	Dataview will release individual forms and dashboards in an iterative manner, allowing the agencies to see progress and provide feedback sooner.
Improved Visibility and Transparency	Dataview will set up weekly reviews with the Agencies to continuously inform them about progress, risks, and changes.
Enhanced Flexibility and Adaptability	Unlike traditional waterfall models where all requirements need to be documented up-front, this approach will allow us to ramp up and accommodate changing requirements—even later in development. This makes it ideal for this project since the agency needs may change as a more detailed business process analysis is done.
Higher Customer Satisfaction	Since we will actively involve the agencies throughout the project lifecycle, their feedback will be incorporated into each sprint, ensuring the final product aligns closely with their business goals.
Reduced Risk	Short development cycles and continuous feedback loops minimize the risk of Dataview building the wrong solution with problems identified and addressed early.
Continuous Improvement	Agile teams reflect on their performance after each sprint and implement changes to improve productivity, quality, and collaboration.

Proposed Solution Summary

Assessment

As part of the consulting services in the design and development phase Dataview will perform an assessment of licenses needed and recommend approaches to minimize cost and maximize the number of permits that can be deployed as part of the first phase. This can be achieved by architecture changes, knowledge of the state's infrastructure and under-utilized licenses.

Portals

Dataview is proposing two application portals for the One Stop Shop permitting solution. One portal will be dedicated to the citizens and companies who will do business with the State of West Virginia. This portal will allow applicants to register, log in into the portal and apply for the desired permits. The second portal will be dedicated to internal agency users. Agency users will only be able to view and process their agency permits/forms.

Dashboards

Dashboards will be defined and configured based on agency/user roles. Different dashboards will be based on both agency level metrics and statewide metrics. The metrics will be generated either via integration with backend legacy systems or the newly developed permitting system. Additional data such as payment and invoicing and revenue information can be integrated from ePay and ERP and added to the dashboards.

Initial Analysis

Our proposed solution will include the analysis of all permits to determine the go-live feasibility of January 1, 2027. While we strive to meet the deadline suggested by our clients, it is, however, difficult to make promises without understanding the complexity of these permits and given the number of permits we will need to implement on this date. For this reason, Dataview suggests a phased approach, where we categorize the permits by volume, complexity, days to review, approve or deny. These categories can be expanded to include others. The table below can be used to illustrate how we can compile and analyze this information.

Agency	Permit Name/Code				#permits/yr	#review/days	Complexity	Paint Point Level
DOT	Permit 1				14	15	Complex	High
	Permit 2				50	10	Simple	NA
	Permit 3				14000	50	Medium	Low
DEP	Permit 1	750	14	Complex	High			
	Permit 2	500	1	Medium	Medium			
	Permit 3	11700	10	Medium	Low			

Based on our analysis, we will be able to determine different approaches to implementing the permits and the number of permits by phase. For example, after investigating some permits from Addendum 4 Q&A of this RFI we can come up with different solutions. See some examples listed below:

We can see that DHHR or Human Health Services have forms built by STO. We assume the information in these forms is captured by STO and sent to DHHR in the form of a comma delimited file or Excel file. This file is then used by DHHR to approve or deny the permits. For these types of forms, we can integrate with the back-end database to populate the metrics in a dashboard. Additionally, we can build just the backend workflow application as part of the One-Stop-Shop for DHHR to better manage these permits.

For paper forms, we can use AI and OCR to extract the data into a form which can then be reviewed by internal users and saved into the new application.

For complex forms, we will implement a web-based solution that improves usability, automation, functionality and efficiency for the agency and its internal staff.

For legacy front ends and paper forms that are not fully converted to full Web Applications in the first phase can be incrementally upgraded in later phases with such an approach.

Infrastructure

Dataview is proposing to implement the Solution in State of West Virginia Data Center using the wvOASIS infrastructure. This would allow us to leverage the existing State infrastructure for firewalls, backups and disaster recovery. We have extensive experience working with the state of West Virginia on provisioning new environments, spinning up services quickly, performing security lockdown, and assisting with disaster recovery testing. An On-Premises implementation will be our primary recommendation. Our secondary recommendation will be to host the solution as a SaaS product in Microsoft Azure or Amazon AWS cloud services. We prefer Microsoft Azure as it is also the Dataview platform for internal development.

SSO Portal integration

Based on Agency user needs we will integrate with the various SAML compliant SSO portals currently used by the State. This will allow the agency staff to use their existing credentials to access the permitting solution, easing the process of onboarding the agency staff. We have experience with integrating our prior solutions with the state's MyApps and OneLogin environments.

User Registration

The applicants will be able to register via a self-service portal using email validation and any additional information required by the agencies. In our other licensing solutions, we have used additional criteria such as prior license numbers or the last 4 digits of an SSN to validate the user. We recommend using registration for all permits, this way applicants can view current and historical information.

Payment integration with ePay

We can integrate with State of West Virginia ePay portal or other payment gateways. We have experience of integration with the STO payment gateway for the Department of Natural Resources and the Fire Marshal's Office.

ERP Integration

We will integrate as needed with the State's ERP Solution based on the agency's business needs. We have experience interfacing Receivables and Cash Receipts with the ERP system. This will allow the State to receive mailed in checks in addition to Credit Card payments via ePay. The closed loop integration between the payment and the ERP accounting system will allow the Agencies to better reconcile the payments.

Notifications

The solution will have an event notification framework that will notify users as the permits and licenses reach different milestones such as license approval or denial, pending payments or exam passing/failing (if required). The Dataview notification framework is integrated with the workflow engine and supports email templates allowing for ease of customization of notification events.

Workflow

The solution will have a workflow engine that can be configured by forms/permits and roles to meet the approval and business needs of the different agencies. In the previous web applications we have built for the state of West Virginia, we have integrated workflow to ensure business processes are tracked and followed.

Reporting

The Dataview framework supports two types of reports – Power BI and embedded Web Reports. Depending on client needs, reports can be implemented in either technology.

Licenses & Permits Generation

The solution will support templates for PDF generation of different types of licenses, certificates and permits. This will allow the agencies to standardize the look and feel of the permits based on their requirements.

Initial Onboarding & Forms Processing Approach

In order to meet the tight deadlines and avoid delays, Dataview will work with the State and agencies to identify the strategy for initial go-live of the solution. Our approach will try to leverage existing technologies and solutions where possible with the focus on improving the overall process and user experience.

Dataview will work with the State to identify the best strategy for integrating with the One-Stop-Shop Permitting Portal based on the existing capabilities of the various Agency Permitting solutions. Our approach would include:

1. Move Permit listings to One-Stop-Shop Portal with ability to download PDF permits.
2. Implement workflow backend and dashboards where existing front end can be reused and integrated, for example using STO ePay custom payment pages
3. Leverage existing Fillable PDF Forms that can be emailed to central email address to be categorized by license type and agency and correct workflow initiated
4. Leverage AI and OCR for simple non-fillable PDF forms that can be emailed to central email address to be categorized by license type and agency and initiate the correct workflow
5. Create custom .NET based Forms/Applications and Data Entry Wizards for complex forms

We can provide digital scanning of documents with AI and Optical Character Recognition (OCR) to help reduce the time spent on manual keying of data from scanned pdfs. This technology utilizes AI and digital character recognition to inventory all the pdf's forms that are accepted and when a PDF is submitted to the system it will determine which form it is and load that form's mapping file to digitize it. Then admin personnel will be able to process the form in the web application with both the scanned form and imported data displayed so corrections can be applied to the data.

Project Implementation Approach

The project will follow the following implementation phases:

Foundations Phase

The duration of the Foundations phase is intended to only last a few weeks. During this phase, emphasis will be made by Dataview to build relationships with the agencies, establish logistics for delivery team

access to onsite State resources, prepare the supporting environment for the project. Additionally, communication plans will be formalized, and key stakeholders identified, and the weekly sprint review schedule will be created. During this phase we will create the initial draft of the forms and dashboard to be developed and their priority. Based on this an initial high level project plan and timeline will be created. This will allow the State to identify and allocate the resources needed to support the project. This list, dashboards and project plan will be refined in later phases.

During the Development phase, work is planned and delivered in small, incremental, iterations, called 'sprints. We anticipate that these sprints will be 2-3 weeks in duration. In a sprint, we complete all stages of the software development lifecycle (SDLC). This includes defining the requirements, designing, developing (coding), testing, and deploying the application to the standards of the projects. The primary outcome of every sprint is a piece of working software. This software is delivered at a much more rapid pace than traditional approaches and can be released immediately for User Acceptance Testing. These sprints are staggered and repeated as dictated by the project schedule. Each sprint is an incremental delivery. The outcome of the Development Phase is a production ready release. During this phase Dataview will work with the Agencies in identifying which forms strategy that were previously described to use for integrating with One Stop Shop Permitting Portal.

During this phase the Dataview technical team will review the requirements for the technical infrastructure setup:

- State SSO Portal's integration (MyApps, OneLogin, others)
- State Payment Gateway integration
- State ERP integration needs assessment
- Environments for Testing and Go-Live - UAT, Production
- Disaster Recovery setup and testing

Design, Development, Testing and Deployment Phase

The delivery phase will follow an iterative agile project delivery, with each iteration consisting of the standard Software Development Life Cycle (SDLC) phases

During **the Design Phase** the Dataview team will work with the agencies to:

- Create initial list of Forms that are in scope of the project
- Identify the approach for integrating the One Stop Shop Permitting Portal based on the previous upgrade strategies.
- Review current Business Process and workflow and identify any improvements to be implemented
- Review and finalize Form Design
- Review existing data for integration and data conversion
- Do a Reporting needs assessment to identify metrics to be reported

The Development Phase will be executed in waves for digitization of forms to agreed up approach: Web Application, OCR, Fillable PDF, Backend Workflow or Back End Integration. Once Developed, Dataview will assist the State Agency team for UAT Testing. Weekly reviews will be conducted to review development status and open issues. The infrastructure setup identified and documented in phase one will also be implemented.

During the UAT Testing phase Dataview will work with the State Agency teams to

- Onboarding business unit staff, ensure security roles, permissions, SSO
- Setup Defect Tracking and work with State team to Open, Review and Close tickets.
- Work with the State team in testing features such as
 - Creating, editing, publishing permits
 - Managing attachments
 - End-to-end workflow testing for submissions
 - Integration with ePay

The Deployment phase will include the cutover activities intended to prepare tasks needed for production environment cutover. Specific activities in this phase are dictated by the needs of the project but can include:

- Performance Testing – Conduct automated tests to confirm that the application meets the predicted workload requirements.
- Setup Security – Enable any integration with existing Active Directories and County Portal if necessary.
- Perform Data Cleansing and Production Conversion
- Perform Mock Conversions – Rehearse cutover to confirm cutover tasks & responsibilities and timelines.
- Conduct Readiness Assessment – Review the mock conversion results to identify process improvements.
- Decide if the software, the sites, and the users are ready for the application to be deployed
- Install Production Environments
- Live Production Operations (Go-Live!)

Post Implementation

The goal of the Post Implementation phase is to maintain the solution and facilitate knowledge transfer and hand-off support functions to the State.

Specific activities in this phase are dictated by the needs of the project but can include:

- Perform tuning activities such as bug fixing, enhancements for performance and usability
- Assess the deployment against the complete vision and identify any gaps
- Achieve stakeholder concurrence that solution is consistent with the product vision
- Achieve user self-supportability
- Manage and Maintain the Production Support Responsibilities while the transfer of the System Administration Responsibilities to the Client is in progress
- Conduct a Lessons Learned Review

3.2.2. Provide examples of previous similar work products.

Dataview has been developing custom enterprise applications for the public sector since 2014. Dataview has developed the following solutions that are relevant to the One-Stop-Shop permitting solution

wvDNR Land and Streams Permitting Applications

Dataview developed the *Land and Streams Permitting Application* for the West Virginia Department of Natural Resources (DNR). The application replaced a legacy Access Database system with a modern web-based platform. The solution allows the Companies and their agents to submit permit applications for various activities such as easements, right of entry or run lines through State managed land. The application supports the following functionality:

1. Self-Sign up for Companies to register via a public portal.
2. Application wizard to assist companies to complete and submit applications via the public portal.
3. Support for 28 different types of application requests.
4. Internal portal for Land and Stream Staff to review, approve or reject applications with comments.
5. Dashboards to keep track of application status for internal and external portals.
6. Functionality to generate invoices for customer payments and generate mail merge correspondences for each type of application.
7. Integration with ePay to send customer and invoice information for customers to pay via WV STO for the invoiced amounts.
8. Transferring permits from one company to another based on company acquisition. This transfers all permits and related information to the new company and keeps track of the source company.
9. Integration with wvOASIS ERP to create receivable documents for invoices and inferring Cash Receipts to reconcile with Receivable once payments are complete.

As part of the implementation Dataview helped convert the existing agreements from the legacy application to a new web-based application. The application went live in 2022 and is supported and maintained by Dataview post go-live. Currently the application supports 18K + agreements, with a total of 12.5K+ invoices generated and 600+ companies and agents registered.

Application Architecture Overview

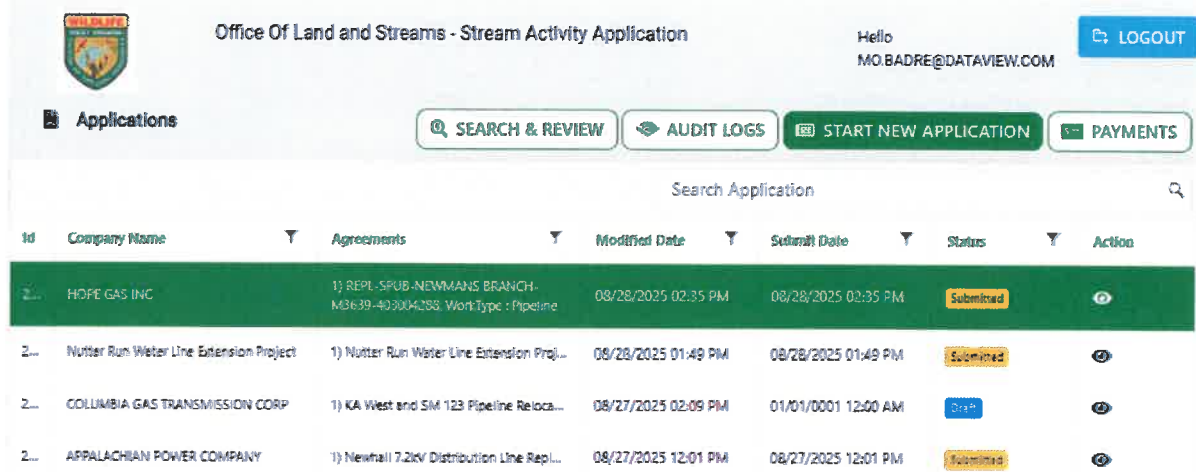
The application was built as a **custom web-based solution** using the following stack:

- **Frontend:** Responsive HTML using Telerik asp.net controls
- **Backend:** ASP.NET Core
- **Database:** SQL Server
- **Framework:** Using the Dataview Development Framework, which supports modular permitting systems and provides base functionality for:
 - Authentication and Role based Authorization Module
 - Single Sign on support using SAML
 - Workflow Engine for simple and complex workflows
 - Email Notifications based on workflow events
 - Support for PDF and Word Mail Merge
 - Integration with ERP and external systems via API
 - Reporting using embedded web reports or PowerBI
 - Support for Batch and Real Time integration
 - Support Renewal of permits

The following screenshots illustrate the look and feel of both the public portal and internal portal:

Public Portal

The screen below allows users to login, view their agreements (permits), make payments, and start new applications, and review and update new agreements.



Office Of Land and Streams - Stream Activity Application

Hello
MO.BADRE@DATAVIEW.COM

Applications

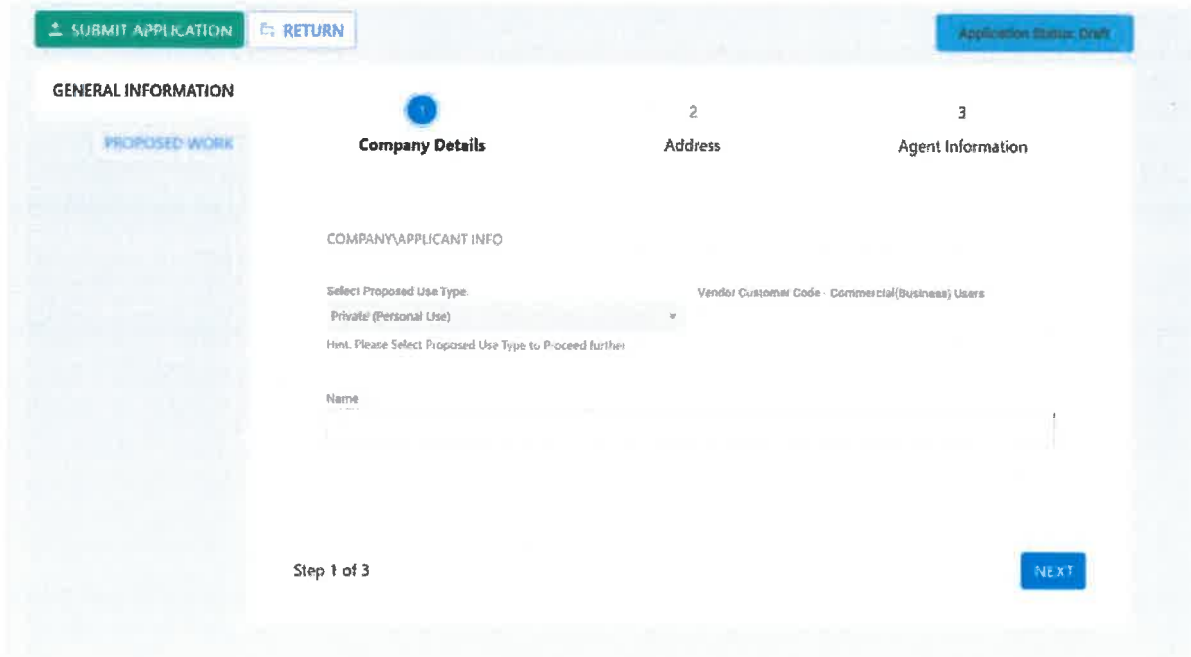
SEARCH & REVIEW | AUDIT LOGS | START NEW APPLICATION | PAYMENTS

Search Application

Id	Company Name	Agreements	Modified Date	Submit Date	Status	Action
2...	HOPE GAS INC.	1) REPL-SPUB-NEWMANS BRANCH- M3639-403004288, Work Type : Pipeline	08/28/2025 02:35 PM	08/28/2025 02:35 PM	Submitted	
2...	Nutter Run Water Line Extension Project	1) Nutter Run Water Line Extension Proj...	08/28/2025 01:49 PM	08/28/2025 01:49 PM	Submitted	
2...	COLUMBIA GAS TRANSMISSION CORP	1) KA West and SM 123 Pipeline Reloca...	08/27/2025 02:09 PM	01/01/0001 12:00 AM	Draft	
2...	APPALACHIAN POWER COMPANY	1) Newhall 7.2kv Distribution Line Rep...	08/27/2025 12:01 PM	08/27/2025 12:01 PM	Submitted	

General Information

This screen shows the first step of filling out the new application for land and streams. A wizard guides the users to enter data into the form.



SUBMIT APPLICATION | RETURN

Application Status: Draft

GENERAL INFORMATION

1 **Company Details** 2 Address 3 Agent Information

PROPOSED WORK

COMPANY/APPLICANT INFO

Select Proposed Use Type:
Private (Personal Use)

Vendor Customer Code - Commercial(Business) Users

Hint: Please Select Proposed Use Type to Proceed further

Name

Step 1 of 3

NEXT

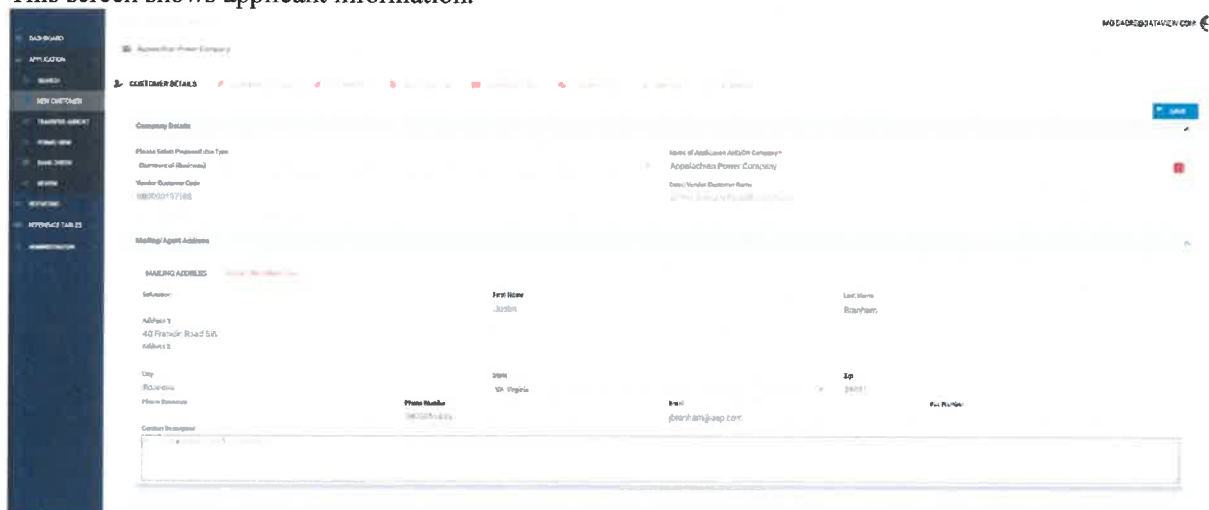
Proposed Work

This screen shows the steps for entering details permit information. This screen is dynamic, and columns change based on work type. A wizard is also used to guide users with data entry. Once users finalize the application, they can click on 'Submit Application' button to submit it for review. DNR staff then reviews the application, approves or rejects the application or request additional documentation. This review process is supported by workflow.

Internal Application

DNR internal staff uses the DNR internal portal to manage the permits and to generate approval letters, rejection letters, invoices and other documents necessary for the work types of the applicants need to exercise.

This screen shows applicant information.



Customer Details

Company Details

Please Select Product Line Type
(Name of Product Line)

Name of Applicant/Utility Company*
Appalachian Power Company

Date: Number Customer Name
2/17/2025 157188

Mailing Agent Address

Mailing Address

Address:

Address 1
40 Franklin Road SW
Address 2

City
Birmingham

State
AL

Zip
35203

Phone Number
(205) 988-1234

Email
johndoe@ap.com

First Name
John

Last Name
Doe

City
Birmingham

State
AL

Zip
35203

Phone Number
(205) 988-1234

Email
johndoe@ap.com

This screen shows the agreements associated with the applicant in the background and one agreement open in the foreground.



Agreement Edit

Customer Details

Customer
Appalachian Power Company

Transferred From
None

Fee Type
O: ONE TIME FEE

Status
A: ACTIVE

Agreement Number
P: 2025-09-26-10074

Agreement Start Date
5/6/2025

Agreement End Date
5/6/2025

Agreement Amount
2 000.00

Invoice
Yes

Agreement Year
2025

Renewed Count
0

Application ID
100

Lease Number
100

Dollar Cancellation Fee
\$1000.00

Renew
Renew

Device Account
S203011040236690054 RIGHT OF ENTRY

Location
100 Land and Stream/DNR

Notes
From the town of Green, in the town of Green, the water will extract a total of 100% of the water from the town of Green.

Background List:

Item ID	Project Name	Project Status
1001	Mountain View Solar Project	Active
1002	Mountain View Solar Project	Active
1003	Mountain View Solar Project	Active
1004	Mountain View Solar Project	Active
1005	Mountain View Solar Project	Active
1006	Mountain View Solar Project	Active
1007	Mountain View Solar Project	Active
1008	Mountain View Solar Project	Active
1009	Mountain View Solar Project	Active
1010	Mountain View Solar Project	Active

Other tabs are used to manage attachments, invoices, and payments.

This screen shows the summary tab. The summary tab shows activities that are upcoming for the applicant such as renewals, invoices (open and aged), and agreements in progress by Fee Type, Agreement Type, and Work Type.

ADDRESS@DATAVIEW.COM

Appalachian Power Company

Summary

Customer Info	Customer Data	Vendor Data	Agreements	Invoices	Payments
Name: Appalachian Power Company	Customer Data: 123456789	Vendor Data: 987654321	Agreements: 254	Invoices: 168	Payments: 85

Agreement Statistics

Projects Due for Renewal + 3 Months

Ag Number	Project Name	Fee Type	Ag Start Date	Owner	Ag End Date	Ag Amount	Open Amount	Ag Type	Work Type
123456789	John Adams Plant No. 1 and 2	ONE YEAR FEE	01-01-2024	APPCO	12-31-2024	\$100.00	\$100.00	Structure	Water Withdrawals

New or Not Processed Agreements

Fee Type	No. Of Agreements	Agreement Type	No. Of Agreements	Work Type	No. Of Agreements
Pen Fee	34	Agreement	1	Water Withdrawals	1
Renewal Fee	37	License, Decoding, Renewal	4	Basic Screen Work	3
ONE TIME FEE	21	Permit	1	Electric	10
TEN YEAR FEE	41	Right of Entry	21	Collectors	16
Transfer of Rights	41	Cables	180	Bridges	18
		Cold Drifts	1	Lockup/Storage/Storage	1
		License Agreement	5	Utility 30	1
		License Agreement	15		

State Fire Marshals Permitting Solution

Dataview Consulting LLC is developing a permitting solution for the West Virginia State Fire Marshal's Office to allow citizens to apply for or renew the 17 different permits, licenses and certifications including *Explosives Permits, Fireworks Permits, Electrician Licenses, Home Inspector Certifications and Electric Inspector Certifications*.

The application provides the following services to the public individuals and companies applying:

- Self-registration with email verification and password complexity enforcement
- Automated linking to existing licenses based on email addresses and license numbers.
- Inbox for tracking application status (draft, submitted, approved, denied)
- Dashboard with alerts, messages, and renewal tracking
- Payment history and renewal links
- Apply and pay for permits and licenses.
- Schedule examinations for any licenses that have such requirements.
- Review and respond to requests by Fire Marshal Staff for any additional materials.
- Ability to Upload supporting documentation along with applications.
- Public query for license lookup (non-authenticated users)
- Ability to download PDF of various issued licenses.

The application provides the following services for the State Fire Marshals Staff:

- Integration with States Single Sign-On Portal
- Dashboards to see pending activities such as documents pending review
- Ability to Review, Approve and Reject applications with requests for additional information
- Continued ability to receive paper applications and checks to do processing on behalf of users
- Automated notifications for license issuance, renewal prompts, and payment reminders
- Reports that reconcile ePay payments with ERP Cash Receipts
- Reporting functionality with canned reports for standard business needs.

Dataview is implementing the solution in multiple phases with the first phase go-live in April 2025. The team followed an Agile Project Management methodology with weekly meetings with the State staff to review:

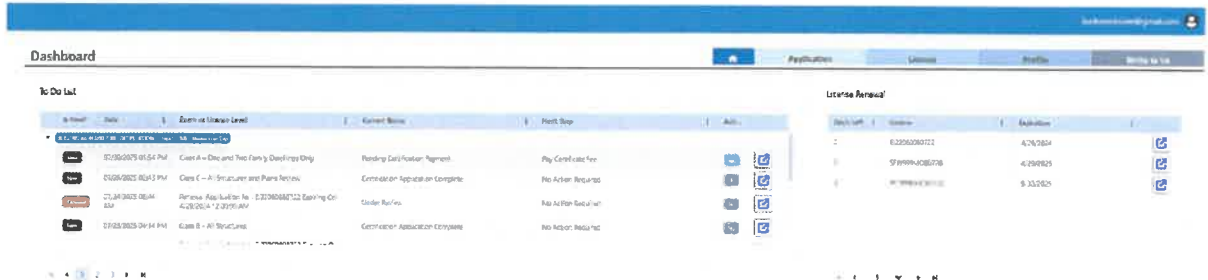
- Issue resolution
- UI feedback
- Testing and deployment planning
- Change Management Communication

As part of the implementation, Dataview is converting the legacy access databases to new architecture. This allows a seamless transition for the existing license holders from paper-based applications to the new web application during renewals.

The following screens show examples of the Fire Marshals public portal and internal portal.

Public dashboard

This screen shows the public portal dashboard for users to view, edit and create new applications and licenses.



To Do List						License Renewal			
Item	Date	Event or Status Label	Current Status	Next Step	Action	Day/Left	License	Expiration	Action
01/06/2025 01:54 PM	01/06/2025 01:54 PM	Class A - Day and Test Entry Deadlines Only	Pending Entry/Postcard Payment	Pay Certificate Fee	[Icon]	2	01/06/2025 01:54 PM	4/26/2024	[Icon]
01/06/2025 02:13 PM	01/06/2025 02:13 PM	Class C - A - Structure and Plans Review	Entrance on Application Complete	No Action Required	[Icon]	0	01/06/2025 02:13 PM	4/26/2025	[Icon]
01/06/2025 02:14 PM	01/06/2025 02:14 PM	Renewal Application No. 1127800000122 Expiring On 4/26/2025	Under Review	No Action Required	[Icon]	0	01/06/2025 02:14 PM	5/15/2025	[Icon]
01/06/2025 04:34 PM	01/06/2025 04:34 PM	Class B - All Renewals	Complete Application Complete	No Action Required	[Icon]	0	01/06/2025 04:34 PM		[Icon]

Application Screen

This screen shows the necessary information required for the Electrical inspector permit/certification.

Application for West Virginia Electrical Inspector Certification

Status : Pending Certification Payment

[Pay Certification Fee](#) [Instructions](#)
[Application](#) [Attachments \(0\)](#) [Payments](#) [Certifications](#) [Comments](#)

Certification Class and Duration

Certification Class *

Duration

Current Status

Personal Information

First Name *

Middle Name

Last Name *

Date of Birth

ESH Number *

Email *

Phone *

Business Information

Employer Name *

Work Phone *

Master or Journeyman License Number *

Address Information

Address Line One *

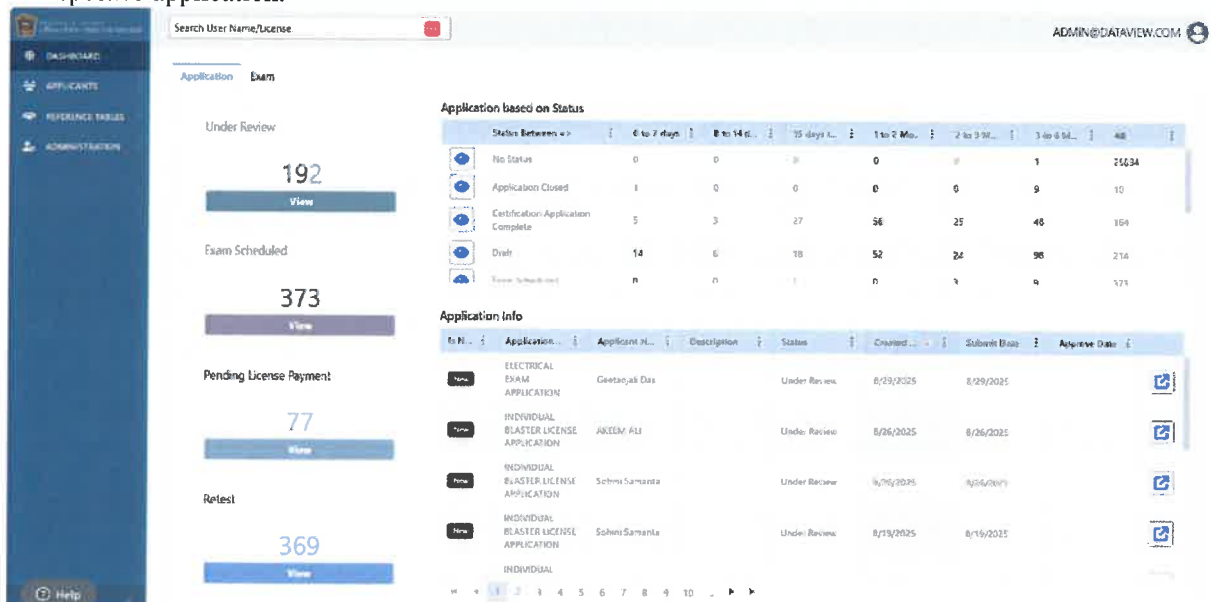
Address Line Two

City Name *

Internal Portal

Internal Dashboard

This screen shows the licenses/permits by different statuses to allow the internal staff to act on outstanding permits. Users can search by name and license number and jump from the dashboard directly to a specific application.



The dashboard displays a search bar for "Search User Name/License" and a sidebar with navigation links: DASHBOARD, APPLICANTS, REFERENCE TILES, and ADMINISTRATIONS. The main content area shows a summary of applications by status:

- Under Review: 192
- Exam Scheduled: 373
- Pending License Payment: 77
- Refest: 369

Below the summary is a table titled "Application based on Status" with columns for Status, Between, and various time ranges (0 to 7 days, 8 to 14 days, 15 days to 1 month, 1 to 2 months, 2 to 3 months, 3 to 6 months, 6 to 12 months, and All). The table shows counts for various statuses like No Status, Application Closed, Certification Application Complete, and Draft.

Below the table is a section titled "Application Info" with a table of applications. The table has columns for Application ID, Applicant Name, Description, Status, Created Date, Submitted Date, and Action Date. The applications listed are:

- ELECTRICAL EXAM APPLICATION: Geetanjali Das, Under Review, 8/29/2025, 8/29/2025
- INDIVIDUAL BLASTER LICENSE APPLICATION: JASSEM ALI, Under Review, 8/26/2025, 8/26/2025
- INDIVIDUAL BLASTER LICENSE APPLICATION: Sohni Samanta, Under Review, 8/19/2025, 8/19/2025
- INDIVIDUAL BLASTER LICENSE APPLICATION: Sohni Samanta, Under Review, 8/19/2025, 8/19/2025

Application screen

This screen shows the information the applicant has submitted. Internal staff review the application on this screen where they can approve or reject the application.

Application for West Virginia Electrical Examination

Status : Under Review

[Manually Close the Application](#) [Approve Application](#) [Deny Application](#)
[Application](#) [Exam Dates & Location](#) [Electrical Work Experience](#) [Attachments \(0\)](#) [Payments](#) [License](#) [Comments](#) [Workflow History](#)

Exam Level and Duration

Exam Level *

Duration

Current Status

Personal Information

First Name *

Middle Name

Last Name *

Date of Birth

ESH Number *

Email *

Phone *

Address Information

3.2.3. Identify your company name, primary contact person, phone and email.

Company: Dataview Consulting LLC
1634 King St, La Crosse, WI 54601

Primary Contact: Sanjeev Musafir
609-608-6638
Sanjeev.musafir@dataview.com

3.2.4. Describe how your solution would address adding additional permits and licenses for the participating agencies, when necessary, as well as adding additional agencies and their permitting requirements that may come online after the fact.

Dataview has extensive experience working with large projects with wave-based rollout by phase and agency. We will leverage our experience of managing scope and incremental rollout of functionality to build a permitting solution that improves the user's experience, with each wave building upon previous features.

The Dataview Development framework that provides common services will be deployed in the initial wave. These services are common and will be available to additional permits and licenses, expediting the rollout. The framework service would include

- Authentication, Authorization and Single Sign-On Services
- Workflow Engine
- Reporting Engine
- Public and Internal Portals

A substantial set of framework features are configuration based and will be configured as each agency's permits are added. Any out-of-band customizations that are required will be included as part of the next release.

In addition, as part of the initial rollout, Dataview will work to size the environment and production environments for future growth. The project will leverage the States virtualized server infrastructure for seamless growth as more permits and licenses are added. If there is a substantial increase in volume of users or transaction in any wave, additional volume and performance testing will be done to validate the service sizing.

3.2.5. How would you address permitting portals currently in use by state agencies?

As previously mentioned, Dataview will work with the State to identify the best strategy for integrating with the One-Stop-Shop Permitting Portal based on the existing capabilities of the various Agency Permitting solutions. Our approach would include the following strategies:

1. Move existing Permit listings to One-Stop-Shop Portal with ability to download PDF permits. We will build a user-friendly navigation based on permit categories and ability to search
2. Implement a workflow backend and dashboards for Agency staff where existing front end can be reused and integrated, for example using STO ePay custom payment pages. The backend will allow agency staff to create a workflow that matches their existing business process and monitor progress on the dashboards.
3. Leverage existing Fillable PDF Forms that can be emailed to central email address to be categorized by license type and agency and correct workflow initiated in the backend system

4. Leverage AI and OCR for simple non-fillable PDF forms that can be emailed to central email address to be categorized by license type and agency and initiate the correct workflow
5. Create custom .NET based Forms/Applications and Data Entry Wizards for complex forms

Additionally, we will leverage our experience in converting forms for State Fire Marshals and DNR Land and Streams to provide assistance in implementing the project. Our conversion process has the following steps:

- Review current forms, document business process and workflow
- Meet with Agency stakeholders and staff to confirm understanding of as-is business process and workflow
- Document any process changes and the business process to be implemented in new solution
- Identify legacy data layout, volumes and constraints
- Finalize approach and time-line to convert
- Convert data, work with the State Agency team to QA Data.
- Use converted data for System and UAT testing of new forms

3.2.6. Describe how you handle security and privacy/cyber security as well as backups and disaster recovery within your solution?

Our recommended approach would be to leverage the State of West Virginia's wvOASIS infrastructure and team. This approach allows us to leverage their proven infrastructure, Disaster Recovery and business continuity processes, and security posture. This approach will save project delivery time for this project versus utilizing a different infrastructure or having to provide a new infrastructure.

If the State prefers other infrastructure, our team has the required expertise in setting up infrastructure; coordinating complex deliverables across multi-team projects; Leading security lock downs, security audits and security certifications on State and Federal projects; Supporting that state of West Virginia in the external security Audit requirements for multiple projects.

Our team members have experience working with various state and federal agencies on external security audit compliance from basic annual audits to Top Secret clearance initial go-live Authority to Operate (ATO) certification. We can help support the state with whatever compliance needs this project falls under.

Our solutions are based on the current version of the Microsoft stack utilizing popular services and components ensuring that vendor security patches can be applied quickly and efficiently.

Depending on project needs we may want to utilize Power BI and other Microsoft cloud services, any of those services will be provisioned in the GCC region for US Governments clients.

Our solution uses encryption for data at rest and data in transit and voids external calls to popular AI tools to avoid leakage of data and minimize security risks.

For internal state users we would suggest using one of the State's Single Sign-On Portals like OneLogin or MyApps. This helps the state admin team control access in fewer control panels.

3.2.7. How would you ensure that the solution will be operational by the deadline indicated in the statute and legislative rule?

We have deployed complex infrastructure for the state of West Virginia in the past and currently help manage similar applications and infrastructure for the state. By using wvOASIS infrastructure in our prior projects and leveraging the existing infrastructure for backups, DR, SSO and firewalls we have been able to reduce our go-live schedule substantially. We will leverage our existing development framework that has the proven features already in use in the multiple permitting implementations in the State of West Virginia.

3.3. Information Being Sought

3.3.1. Examples of previous solutions of similar size and scope.

The State Fire Marshals' solution and the DNR Permitting solution are similar in size and scope to the requirements of the One Stop Shop Permitting solution. As previously described, both projects required Dataview to analyze existing forms and business processes, develop new web forms, convert legacy data and implement the business process using the new solution. The one-stop-shop Permitting solution has the same challenges.

Below is a summary of the current metrics of the implementations.

State Fire Marshals Permitting Solution

Metrics (Since April 2025)	Volume
Number of License Applications Submitted	5,270
Total Number of License Applications in system	24,458
Total Number of License & Permit Types	18
Number of License & Permit Types in Production	5
Number of License & Permit Types in UAT	4
Number of License & Permit Types in Development	9

Metrics (Since April 2025)	Volume
Number of Registered Users	5,996
Number of Payments Processed	3,892
Number of Payments Processed	311,425

wvDNR Land and Streams Permitting Applications

Metrics	Volume
Number of Agreements Processed in 2024	1331
Total Number of Processed Agreements	18368
Total Number of Invoices Processed	12545
Total Number of Invoices Processed in 2024	3764
Total \$ of invoices processed	\$15,654,256
Total Number of Agreement Types	28
Number of Agency Users	10
Number of Registered Users	677

3.3.2. Please describe pricing strategy options available to address the cost of buildout and maintenance of the program, including user fee options.

- Time and Materials (T&M) Software Development – This is our recommended approach for implementing the solution. This will allow the State flexibility to add and modify system functionality as the solution is implemented. In our prior engagements with the State, Dataview worked with the State to put together a *Statement of Work* prior to implementation to define the scope

of initial work. As the requirements are gathered and the work product is better understood the *Statement of Work* will be updated. This approach will allow the State the opportunity to gradually include their functional and technical staff in the project delivery to get better knowledge of the tools, technologies and processes and if there is a preference to do additional enhancements and modifications. The State will have a royalty free, non-distributable version of their source code available for future modifications and enhancements.

- Fixed Price Software Development – Similar to the T&M Statement of Work, this approach can be followed if the scope of the Statement of Work is not expected to change. Based on the scope, Dataview can provide a fixed project implementation cost per phase of the project with invoices based on different milestones during agency rollout, such as Design Completion, UAT Testing, Volume Testing and Production Cutover. Any change in scope of work will be made via a change-order process.
- Annual Licensing - This pricing model can be implemented post go-live with a T&M approach or Fixed Price model for the initial implementation. With this approach, once the application is stabilized in production, those agencies move to an annual licensing model for any ongoing production maintenance and support. A set of consulting hours and enhancement hours will be included each year as part of the annual license. Any complex enhancements that exceed the allocated annual hours will be invoiced separately.

3.3.3. Any marketing materials, technical data or other relevant information to the solution.

We don't have any additional marketing materials for the solution. We can provide a walkthrough of our existing production solutions. Additional details about Dataview services are available on our Web Site – www.dataview.com

Appendix A

Please see Appendix for Addendum Acknowledgement Form with Signatures

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFI SEC2600000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input checked="" type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input checked="" type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input checked="" type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input checked="" type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Dataview Consulting LLC

Company

Sergey Muro/Lr

Authorized Signature

8/28/2025

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.