RESPONSE TO REQUEST FOR PROPOSALS

NCTCOG ARTIFICIAL INTELLIGENCE CONSULTANCY SERVICES

RFP NO. 2025-023

SUBMITTED TO:
North Central Texas Council of Governments
616 Six Flags Drive
Arlington, TX 76011

SUBMITTED BY:
RESPEC Company, LLC
700 International Parkway, Suite 100
Richardson, TX 76081

January 13, 2025
RSI/P-10949

January 13, 2025

Lisa Littrell, NIGP-CPP, CPPO, CPPB
Purchasing Agent
North Central Texas Council of Governments
616 Six Flags Drive
Arlington, TX 76011

Dear Lisa:

RE: Proposal for NCTCOG Artificial Intelligence Consultancy Services–RFP No. 2025-023 (RSI/P-10949)

RESPEC Company, LLC (RESPEC) is pleased to submit this response to the North Central Texas Council of Governments (NCTCOG) Request for Proposal for Artificial Intelligence (AI) Consultancy Services.

NCTCOG is taking the important first step to adopting cutting edge AI technology to enhance operational efficiency, improve decision-making, and foster innovation across its member organizations. Understanding the critical importance of this initiative, RESPEC is committed to providing the expertise and strategic guidance necessary to achieve these ambitious goals.

RESPEC is uniquely positioned to assist NCTCOG and its members in integrating AI solutions that are tailored to their strategic objectives. Our AI industry expertise spans transportation, environment, healthcare, and utilities, enabling us to deliver advanced solutions that align with the diverse needs of local governments. We are dedicated to empowering officials with the tools needed to make informed decisions more efficiently than ever.

Founded in 1969, RESPEC is a multi-disciplined global leader in diverse technologies. As a client-focused consulting and services company, we specialize in developing innovative solutions for critical technology projects nationwide. Our 100 percent employee-owned company has advised clients for more than 55 years, and we employ more than 600 professionals, including more than 100 information technologists. Our team of project managers, developers, and GIS analysts has supported public entities for more than two decades.

We are eager to collaborate with NCTCOG and TXShare members through this cooperative purchasing program. If you have any questions about our proposal, please contact me by telephone ([redacted]) or email (andrea.worthy@respec.com).

Sincerely,

Andrea Worthy
Contract Manager

Enclosure
cc: Project Central File 996-10949

700 INTERNATIONAL PARKWAY
SUITE 100
RICHARDSON, TX 75081
214.333.2000

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CERTIFICATE OF OFFEROR AND STATEMENT OF UNDERSTANDING

TXShare
Your Public Sector Solutions Center

REQUEST FOR PROPOSALS
For
Artificial Intelligence (AI) Consultancy Services
RFP # 2025-023

Sealed proposals will be accepted until 2:00 PM CT, **December 18, 2024,** and then publicly opened and read aloud thereafter.

RESPEC Company LLC
Legal Name of Proposing Firm

Andrea Worthy | Contract Manager
Contact Person for This Proposal | Title

[redacted] | andrea.worthy@respec.com
Contact Person Telephone Number | Contact Person E-Mail Address

700 International Parkway, Suite 100 | Richardson, TX | 75081
Street Address of Principal Place of Business | City/State | Zip

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Mailing Address of Principal Place of Business | City/State | Zip

Meagan Chaddick MC | Senior Vice President
Point of Contact for Contract Negotiations | Title

972.707.8680 | meagan.chaddick@respec.com
Point of Contact Telephone Number | Point of Contact Person E-Mail Address

Acknowledgment of Addenda (initial): #1 MC _____ #2 _____ #3 _____ #4 _____ #5 _____

NOTE: Any confidential/proprietary information must be clearly labeled as "confidential/proprietary". All proposals are subject to the Texas Public Information Act.

COVER SHEET

UNDERSTANDING OF THE WORK

The North Central Texas Council of Governments (NCTCOG), in conjunction with TXShare, is seeking to embrace Artificial Intelligence (AI) technologies to drive operational efficiency, improve decision-making, and elevate service delivery. Unique considerations need to be addressed when dealing with AI and the public sector. NCTCOG seeks a consultant to offer expertise and strategic guidance on implementing AI. This includes identifying opportunities, developing strategic plans, and implementing solutions. To achieve this, NCTCOG requests strategy reports, roadmaps, feasibility studies, pilot implementation plans, training materials, and project reporting.

RESPEC is fully capable of meeting all significant requirements outlined in the Scope of Work. Our comprehensive expertise and resources ensure that we can effectively deliver solutions and services required by NCTCOG and its members of TXShare.

RESPONSE TO PROPOSAL EVALUATION CRITERIA

KEY PERSONNEL

INTRODUCTION

The NCTCOG is at the forefront of innovation, harnessing the transformative power of AI to drive operational efficiency, enhance decision-making, and improve service delivery for its TXShare Cooperative Purchasing Program members. By integrating AI solutions that align with strategic goals, NCTCOG aims to address the unique challenges faced by public-sector entities, ultimately improving the quality of life for the members it serves.

Achieving these objectives requires significant challenges, including ensuring compliance with stringent public-sector regulations, maintaining robust data security and privacy, and seamlessly integrating AI into existing processes. Empowering internal teams with the necessary knowledge and skills to adopt and sustain AI technologies for long-term success is crucial.

RESPEC is well-positioned to be a trusted partner in this transformative initiative. With a deep understanding of the public-sector landscape and a proven track record in AI consultancy and decision-making functionality, RESPEC offers the expertise and strategic guidance needed to navigate these complexities. Our approach focuses on developing comprehensive AI strategies and roadmaps that comply with regulatory and ethical standards while empowering NCTCOG's members through tailored training and capacity-building programs.

RESPEC's commitment to delivering ethical, secure, and innovative AI solutions aligns perfectly with NCTCOG's vision. By leveraging our experience and resources, we will support NCTCOG and its members in achieving their goals, ensuring that AI solutions are implemented effectively and generate sustainable value for the organization and their stakeholders. Together, we can transform challenges into opportunities, paving the way for a future where AI enables meaningful improvements in public service delivery and community well-being.

WHY RESPEC?

AI EXPERTS

We deliver proven AI solutions in transportation, environment, healthcare, and utilities

GOVERNMENT SPECIALISTS

More than 50 percent of our $125 million revenue is from public-sector work with city, county, special districts, and other government entities

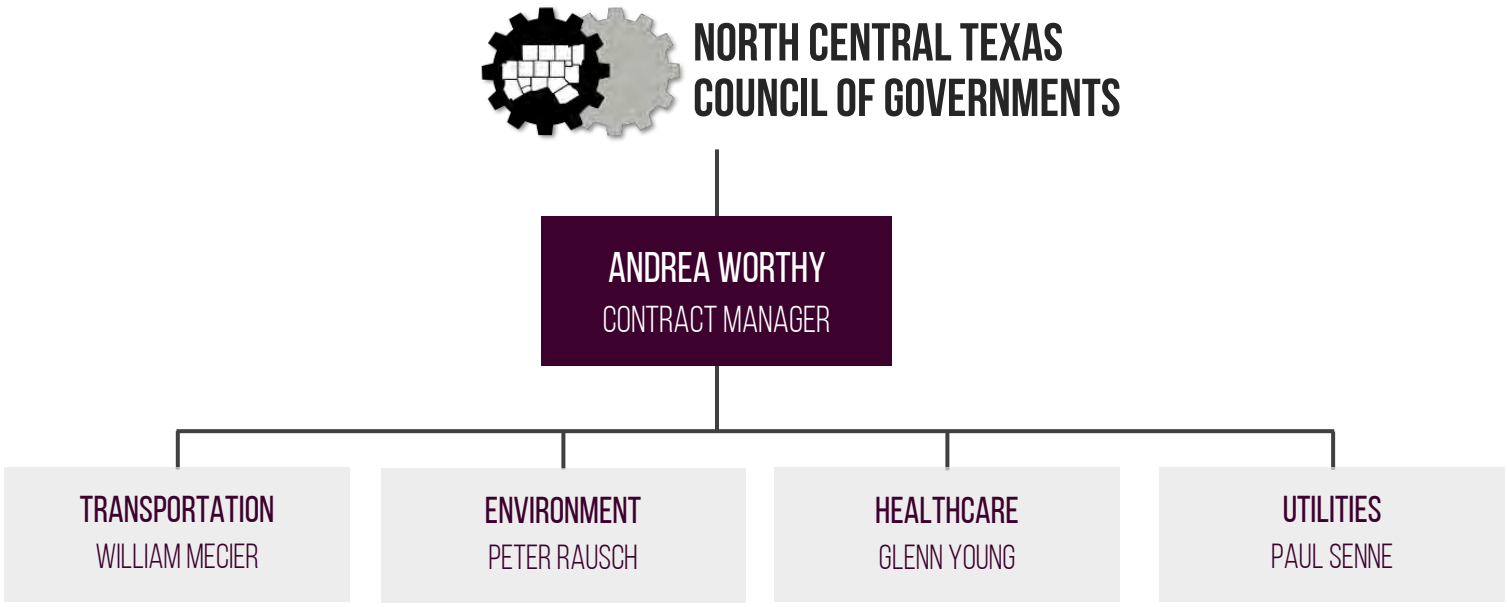
BASED IN NORTH TEXAS

Our Technology Headquarters in Richardson, Texas has been operating for more than 55 years

TRANSPORTATION ENVIRONMENT HEALTHCARE UTILITIES

ORGANIZATIONAL CHART

Below is an overview of our project team's organizational structure, highlighting the key responsibilities dedicated to delivering AI consultancy services for this initiative.



TEAM MEMBER QUALIFICATIONS

RESPEC provides AI solutions in the transportation, healthcare, environment, and energy sectors, tailored to meet the unique needs of public-sector entities. Our team brings a wealth of experience and expertise, ensuring that NCTCOG member organizations receive top-tier consultancy support. The qualifications of our proposed staff are outlined below, showcasing their capability to deliver innovative AI strategies and solutions. For detailed professional backgrounds, please refer to the full résumés provided in Appendix A.

CONTRACT MANAGEMENT | ANDREA WORTHY

Andrea Worthy brings 27 years of experience in contract management, specializing in software solutions that encompass custom software applications, mobile platforms, and information systems with AI and decision-making functionality. Her comprehensive expertise spans the entire contract lifecycle, from procurement and negotiation to execution and compliance, ensuring that all activities align with NCTCOG member goals and adhere to public-sector standards.

Andrea facilitates clear and effective communication between stakeholders, ensuring that all parties are informed and engaged throughout the contract process. She implements robust monitoring frameworks and risk mitigation, ensuring that contractual obligations are met and delivering measurable value to NCTOCOG's members. With a deep technical knowledge of platforms like .NET, Java, and Oracle SQL, and proficiency in Agile tools like Jira and Confluence, Andrea bridges the gap between technical teams and stakeholders, ensuring seamless contract execution.

Andrea's proven track record in managing contracts within complex environments underscores her commitment to operational excellence. Her leadership fosters collaboration, ensures compliance, and delivers high-quality outcomes, making her an indispensable asset in the successful implementation of AI strategies for NCTCOG's member organizations.

TRANSPORTATION

WILLIAM MECIER

William Mecier is a Hydroinformatic Scientist with specialized expertise in GIS, AI, computational hydraulics, and water resource management. He develops AI solutions that enhance operational efficiency, automate labor-intensive tasks, and provide critical decision support for public-sector organizations.

William's educational background, with a Bachelor's degree in Environmental Sciences and Technology and a Master's in Hydroinformatics and Water Management, emphasizes control algorithms and AI. He regularly applies machine learning and data analytics to address complex transportation, spatial, and water challenges.

William has successfully integrated AI into hydraulic modeling tools such as HEC-RAS and SWMM, providing advanced, data-driven planning capabilities. His transportation experience encompasses advanced modeling, predictive maintenance for roads and rail, and real-time sensor analytics, which facilitate corridor management, multi-modal network analysis, and strategic infrastructure development. During his tenure with the Lower Colorado River Authority, William collaborated with construction, transportation, and surface water clients in Central Texas. His ability to evaluate and optimize infrastructure performance through sophisticated modeling demonstrates his aptitude for creating tailored AI strategies, making him a valuable asset in advancing public-sector AI initiatives.

ENVIRONMENT

PETER RAUSCH, PE, CFM

Peter Rausch, with a Bachelor's and Master's degree in Civil and Environmental Engineering, brings 14 years of experience in the field, offering environmental planning and mitigation solutions. He has used AI technologies that have significantly benefited state and local agencies in watershed management and infrastructure optimization. Notably, he has applied flood prediction techniques to the South Dakota Department of Agriculture and Natural Resources (DANR) Flood Information System, enhancing its capabilities.

As a licensed Professional Engineer and Certified Floodplain Manager (CFM), Peter has managed diverse projects that involve analyzing and optimizing large datasets. His work includes large-scale floodplain modeling, irrigation system optimization, sustainable stream restoration plans, and the development of remote monitoring and control systems. His expertise extends to developing sustainable solutions for watershed planning and implementing data-driven strategies to enhance public-sector service delivery.

Peter's ability to balance technical rigor with strategic oversight ensures that projects align with high-level organizational objectives, optimizing processes, improving decision-making, and enhancing water system management. His leadership and commitment to quality make him an invaluable asset for initiatives focused on advancing environmental resilience through AI-driven solutions.

HEALTHCARE
GLENN YOUNG

Glenn Young brings 38 years of experience as a solutions architect and software developer, holding a Bachelor's degree in Mathematics. With 25 years as a seasoned data warehouse architect, he has expertise in data architecture and project management in healthcare environments. His proficiency in designing and implementing data solutions ensures comprehensive governance and provides actionable insights crucial for public-sector AI applications.

Glenn's approach to developing automation tools and high-availability systems enhances efficiency and strategic decision-making processes. His proficiency in SQL, Oracle, and Microsoft SQL Server has enabled him to build data warehouses and reporting systems that adhere to stringent compliance standards. He is well versed in AI applications, including predictive analysis, decision support systems, and modeling based on community and geographic areas, as well as modeling what-if scenarios. Notably, he has analyzed healthcare improvements in communities by applying additional funds to opioid reduction efforts.

Glenn's focus on data quality and system reliability complements his ability to design AI-powered solutions that support organizational goals. His commitment to advancing data strategies positions him as a vital contributor to AI strategy development and implementation.

UTILITIES
PAUL SENNE

Paul Senne brings a 17-year track record in software development and spatial analysis, with a focus on process automation tailored to address public-sector challenges. He holds a Bachelor's degree in Geography and a Master's in Environmental Policy and Natural Resources Management. With his expertise in project management and application design, Paul plays a pivotal role in crafting strategies that streamline operations and enhance decision-making through advanced technologies. He is skilled at using large geospatial datasets and developing process automation to produce valuable outputs for policy decision-making.

Paul excels in creating applications with intuitive user interfaces and reliable data management systems. His proficiency with open-source tools such as PostGIS and PostgreSQL allows him to design data architectures that prioritize governance, accuracy, and security.

As a staunch advocate of ethical AI, Paul ensures compliance with public-sector standards while delivering user-focused solutions that simplify complex technologies. His ability to translate technical concepts into actionable insights facilitates the seamless integration of AI tools within organizational processes.

CONFIDENTIAL/PROPRIETARY INFORMATION

REFERENCES

A brief description of the work we did with our references can be seen in our project-related experience and qualifications section.

COLORADO DEPARTMENT OF TRANSPORTATION

[redacted]

Representative Project: CDOT MS4 Program Support

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

[redacted]

Representative Project: South Dakota Flood Information System (SDFIS)

MILE HIGH FLOOD DISTRICT

[redacted]

Representative Project: Drone-Based Deep Learning Model "IRIS"

DATA BASIS LLC

[redacted]

Representative Project: [redacted]

PROJECT-RELATED EXPERIENCE AND QUALIFICATIONS

COMPANY BACKGROUND

RESPEC is dedicated to delivering exceptional solutions by empowering clients to make informed decisions about their future. Our collaborative partnership model emphasizes achieving strategic goals and objectives alongside our clients, fostering strong, long-term relationships that align with NCTCOG's mission. As a 100 percent employee-owned corporation, RESPEC empowers its employees to pursue growth and success, reflecting their vested interest in the company's performance. This ownership inspires our team to ensure client satisfaction by executing successful projects.

Founded in 1969, RESPEC is a multidisciplined global leader in diverse technologies. With more than 600 employees, including 146 Professional Engineers, 17 PhDs, and more than 100 IT and GIS professionals, we are well-equipped to deliver high-quality, reliable solutions tailored to NCTCOG and TXShare's initiatives. Our presence in Texas, with three offices, and our operations across 34 offices in 15 U.S. states and 2 Canadian provinces underscore our capability to support extensive projects.

RESPEC is organized into four business units: Data & Technology Solutions, Water & Natural Resources, Infrastructure, and Mining & Energy. We operate cohesively across these markets with more than $125 million in annual revenue, enabling us to successfully deliver projects of varying scopes and sizes. Our established presence and extensive resources ensure we can effectively meet the needs of TXShare members.

For more than 30 years, RESPEC's Data & Technology Solutions unit has leveraged industry-leading technology tools and innovative techniques to create solutions that use data across industries, including water, infrastructure, telecommunications, and government sectors. Our expertise in decision support systems, database applications, visualization, and data science is pivotal for developing and implementing solutions that align with NCTCOG's objectives. Innovation is at the core of our operations, and we have substantial experience in consulting on AI projects, welcoming opportunities to explore AI-driven solutions. RESPEC brings the technological expertise to ensure that your solution is not only effective but also enhances operational ease and efficiency.

RESPEC COMPANY, LLC

OUR COMPANY:
Founded in 1969 // 55 years in business

OUR PEOPLE:
600+ // 100% employee-owned

OFFICE LOCATIONS:
14 US states // 2 CAN provinces

SCOPE OF WORK REQUIREMENTS

RESPEC is fully capable of meeting all significant requirements outlined in the Scope of Work. Our comprehensive expertise and resources ensure that we can effectively deliver solutions and services required by NCTCOG.

SUBCONTRACTORS

RESPEC will not engage any subcontracts or third-party services in fulfilling this RFP. Our in-house team possesses the necessary skills and experience to execute all aspects of the project, ensuring a seamless and integrated approach to delivering high-quality results.

AREAS OF EXPERTISE

CAPABILITIES IN ARTIFICIAL INTELLIGENCE

RESPEC has experience implementing AI across various sectors, including transportation, healthcare, environment, and utility planning. We have successfully assisted state and local governments by identifying opportunities for AI integration and leveraging our team's expertise in data science to develop and implement tailored solutions. Our proficiency in data strategy and management, both in relation to AI and more broadly, positions us to bring best practices and innovative solutions to NCTCOG and it members.

Our approach is client-centric, prioritizing each organization's unique needs, as we recognize that strategic implementation is crucial for AI success. Understanding that AI solutions must be customized, we avoid a one-size-fits-all approach. Our history of integrating AI with other technologies enables us to create bespoke solutions tailored to our clients' specific requirements. Our project experience demonstrates our ability to discern when AI implementation is beneficial and when alternative technologies provide the necessary functionalities, ensuring that all your unique and individual needs are considered and addressed.

We have demonstrated expertise in computer vision, exemplified by our work with Colorado Department of Transportation (CDOT) and MHFD. Our strategic implementation of computer vision for these clients has empowered them to deploy their resources more effectively. We identify opportunities for AI implementations that make tangible improvements in operational efficiency.

Our implementations of machine learning have significantly enhanced our clients' workflows. We have facilitated the adoption of deep learning models to streamline environmental modeling processes, saving clients valuable time. Our AI solutions have transformed traditionally labor-intensive tasks into efficient, reliable, data-driven processes.

RESPEC has been a trusted partner throughout the planning and implementation of these technologies. By leveraging our technical expertise with an understanding of your organization's needs, we provide solutions that are feasible to adopt and maintain, ensuring long-term success and value.

PUBLIC-SECTOR EXPERIENCE

RESPEC possesses a profound understanding of public-sector compliance, ethical standards, and AI-related regulations. Our experience in the public sector is demonstrated by the fact that more than 75 percent of our data & technology business is derived from federal, state, and local government contracts. We have been actively involved in projects across 35 states and numerous local governments, showcasing our ability to effectively address the unique needs of public entities. Since 2006, RESPEC has successfully completed more than 320 contracts with state and local governments, reinforcing our reputation as a reliable and trusted partner.

Our team excels in implementing AI strategies tailored to the specific requirements of public entities, ensuring compliance with stringent public-sector regulations, database requirements, and metadata integration. We consistently deliver AI solutions that adhere to ethical standards and are designed to be enhanced continually by incorporating new data or constraints. This approach significantly enhances decision-making and operational efficiency for our public-sector clients, ensuring that they receive effective and sustainable solutions.

PROJECT LEADERSHIP AND COMMUNICATION

Each of our AI consultants specialize in distinct industries, including transportation, environment, healthcare, and utilities. These consultants are responsible for overseeing daily project operations, ensuring that industry-specific expertise is applied throughout the project lifecycle. Our team is led by a contract manager who serves as an escalation point for our clients, providing a direct line of communication for addressing any concerns or issues that may arise.

To keep our clients informed and engaged, we provide weekly status reports and bi-weekly project update meetings. Reporting responsibilities are visually detailed in the organizational chart in the Key Personnel section.

PROJECT EXAMPLES

COLORADO DEPARTMENT OF TRANSPORTATION MS4 PROGRAM SUPPORT

Client: Colorado Department of Transportation // **Period of Performance:** 2016–Ongoing

RESPEC is a leading provider of environmental and stormwater engineering services, offering specialized expertise in water quality compliance assistance. With more than a decade of experience working with various departments of transportation, RESPEC understands the unique challenges these organizations face in meeting water quality requirements. Our expertise is highly sought after, evidenced by CDOT consistently selecting us to develop and implement programs that ensure compliance with their Municipal Separate Storm Sewer System (MS4) stormwater permit.

> "RESPEC's input on Colorado Discharge permits, SWMP Design, CDOT specification, numerous CDOT procedures and program development provided the tools needed for success. RESPEC has repeatedly stepped up to meet critical and demanding deadlines, while keeping deliverables to an exceptional standard."
>
> **– Tripp Minges, CDOT/CDPHE Liaison, Former CDOT MS4 Construction Program Manager**

In supporting CDOT's MS4, RESPEC deployed our Intelligent Remote Identification System (IRIS), significantly enhancing the efficiency of site inspections. Using drones equipped with high-quality cameras and precise location data, IRIS quickly surveys large areas, identifies issues such as damaged silt fences and improper placements, and flags them on ArcGIS Online. Before implementing IRIS, CDOT manually monitored temporary sediment control devices to prevent pollutants from entering drainage and sewer systems—a time-intensive and repetitive task. By deploying a drone to collect imagery and processing data through IRIS, RESPEC enabled CDOT to quickly identify infrastructure issues for repair teams, transforming 41 minutes of manual labor into just 15 minutes with IRIS.

RESPEC has further supported CDOT by revising template documents to comply with the new MS4 permit, updating the Permanent Water Quality (PWQ) section of the CDOT Drainage Design Manual, developing program description documents, assisting with annual reporting, and responding to the U.S. Environmental Protection Agency's audit. In 2020, we inspected several hundred CDOT PWQ structures to identify operation and maintenance needs. Through this work, RESPEC gained valuable insights into typical operation and maintenance issues and developed strategies to minimize or prevent similar problems through thoughtful design and effective communication with maintenance and end users.

SOUTH DAKOTA FLOOD INFORMATION SYSTEM

Client: South Dakota Department of Agriculture and Natural Resources // **Period of Performance:** 2016–Present

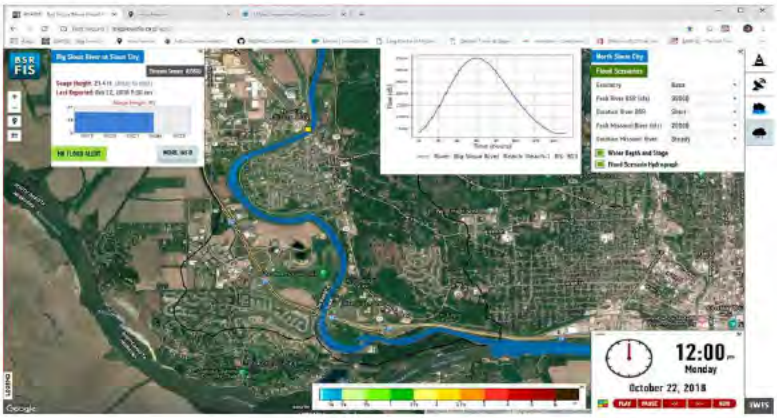
The SDFIS is a one-stop web platform to access real-time stream conditions, flood forecasts, visualizations, inundation maps, and flood-related data and information developed for the State of South Dakota. This publicly accessible, interactive mapping tool includes observed and forecasted stream conditions at more than 60 locations throughout the 8,430-square-mile Big Sioux River Basin. It offers users a library of more than 8,600 inundation maps depicting realistic flood scenarios for five communities along the Big Sioux River and 256 maps for the Missouri River from Gavins Point Dam through its confluence with the Big Sioux River. These maps include detailed information, such as point-by-point maximum flood depths and water-surface elevations for each scenario. Users can also view observed and forecasted rainfall coverage over the Basin.

> "I will tell you: throughout this situation, talking to the Army Corps of Engineers and them giving me predictions, and then the National Weather Service giving us predictions, and then I would call (the DANR with the SDFIS) - (the DANR) was always right...If I had to pick one that I was gonna listen to, it's gonna be (the DANR and the SDFIS). (They) always gave me the most accurate information, and what they built in that system was the most predictable thing for us to use and I was extremely grateful for it...(Their) models are fantastic and I think that was a great resource for us to build and to have."
>
> **–South Dakota Governor Kristi Noem**

Behind the scenes, the system provides state and local officials with real-time flood inundation forecasts. At its core is a Basin-wide hydrologic model (HSPF) that is continuously updated with observed and forecasted meteorological data. When flood events are predicted, the hydrologic output from this model supplements data from the National Weather Service River Forecast Center. These data feed into the same flood inundation models (HEC-RAS 5) used to develop the map library. The predicted inundation maps are provided to state officials, along with hydrographs and stage graphs to provide flood timing predictions to support real-time decision-making.

The SDFIS helps the public understand potential flood risks and equips officials with accurate information to make appropriate decisions during flood events. Even before the system was fully operational in 2018, and through its first year of official operation in 2019, it proved its value through several floods. This includes using the real-time flood inundation forecasting system for four of the five mapped communities. The system was again put to the test through record-shattering historic flooding in June 2024 and provided officials with flood predictions that were "always right." Through multiple major flood events over the last 6 years, the SDFIS has given officials the confidence to take appropriate action in flood response efforts. The SDFIS predictions have proven accurate for big decisions, such as closing Interstate 29 at North Sioux City in June 2024. It came within 0.1 feet of observed flood stages.

The predictive analytics RESPEC implemented made a concrete difference in flood response in South Dakota. The flood information system can synthesize water data to predict potential flood conditions by integrating several algorithms and statistical models. This model provides more accurate predictions, which can keep people safe.



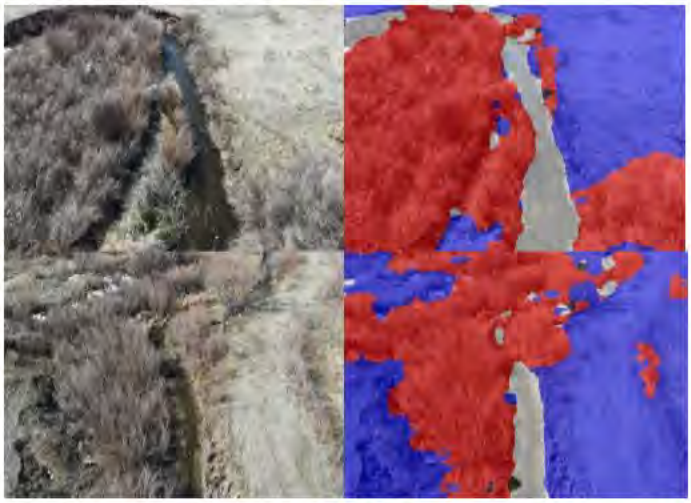
Our experience with the SDFIS project highlights the benefits of real-time flood inundation forecasting and communication with the public and officials. The SDFIS serves as a model for creating similar flood forecasting and communication systems in other river basins. The insights gained from the SDFIS project can guide the development of similar systems, helping prevent loss of life and property damage in future flood events.

DRONE-BASED DEEP LEARNING MODEL "IRIS"

Client: Mile High Flood District & Douglas County // **Period of Performance:** Ongoing

MILE HIGH FLOOD DISTRICT

RESPEC developed an advanced AI-driven stream assessment tool called the IRIS (Intelligent Remote Identification System) for MHFD. This innovative solution integrates drone-based data collection and machine learning to automate the evaluation of stream parameters such as Manning's n values, erosion, sediment deposition, and channel obstructions. IRIS transforms labor-intensive tasks into highly efficient, reliable, data-driven processes using high-resolution imagery from consumer-grade and enterprise drones, combined with neural network models for precise semantic segmentation. The tool also incorporates the Normalized Difference Vegetation Index and other vegetation indices to analyze vegetation health, enhancing MHFD's ability to manage flood risks and stream maintenance.



The project featured a two-phase approach: data collection on selected streams and AI model development. Drone imagery was annotated and processed to train models capable of delivering accurate classifications, reducing subjectivity in assessments, and enabling more consistent results. For example, IRIS mapped erosion with 90 percent accuracy, providing actionable insights that support floodplain management. Future recommendations include bi-annual drone flights and LiDAR integration for even greater precision. This solution exemplifies our commitment to using cutting-edge technology to streamline environmental monitoring and deliver tailored, impactful results.

MHFD

DOUGLAS COUNTY STORM POND VOLUME

Like many communities, Douglas County has aging water quality and stormwater detention features that may require significant maintenance to return them to designed conditions.

RESPEC's two-phased drone surveying approach addressed the challenges of vegetated detention ponds. Initially, drones captured high-resolution imagery of the vegetated pond surfaces, generating a photogrammetrically created surface. Advanced AI algorithms were then employed to classify and filter out vegetation within the point cloud, producing a refined Digital Terrain Model (DTM).

After removing vegetation to provide an adequate aerial view, RESPEC flew a drone at each pond location and used drone imagery to calculate the devegetated pond volume. By comparing the AI-filtered DTM with the newly captured, devegetated data, RESPEC provided a precise assessment of pond volume discrepancies relative to the as-built plans. This AI-driven approach enables the County to prioritize vegetation management efforts efficiently, focusing on ponds where sediment accumulation significantly impacts volume, thus reducing the need for widespread, costly vegetation clearance.

RESPEC digitized all available pond as-builts and compared the current and as-built volumes to estimate maintenance requirements, including cost estimates for sediment removal and pond regrading. This study paves the way for Douglas County to adopt a cost-effective, data-driven strategy using drone technology and AI for routine detention pond assessments. By relying on AI-classified DTMs, the County can strategically manage vegetation, ensuring that maintenance resources are allocated where they are most needed.

DOUGLAS COUNTY COLORADO

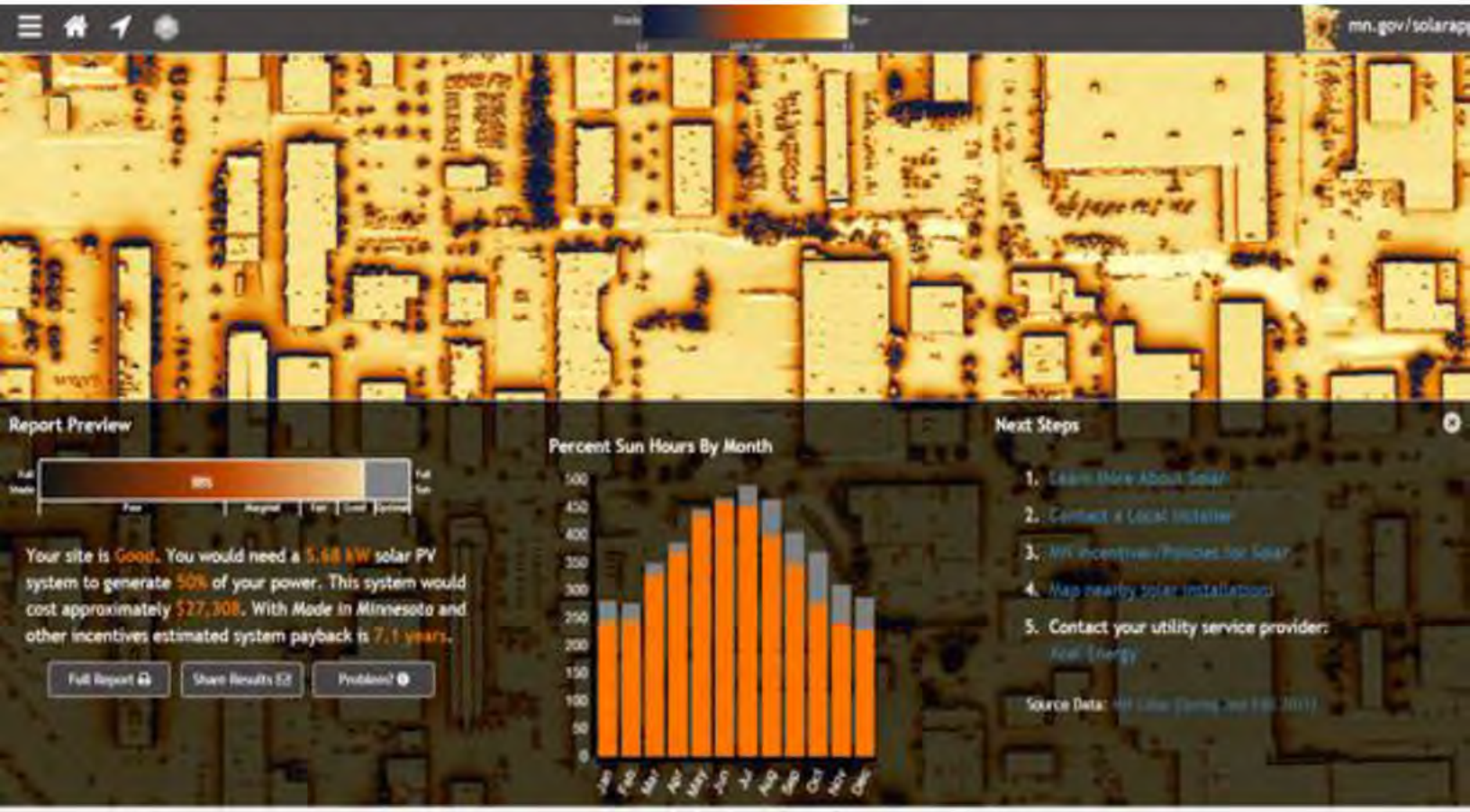
CONFIDENTIAL/PROPRIETARY INFORMATION

[redacted]

MINNESOTA SOLAR SUITABILITY APP

Client: Minnesota Department of Commerce // **Period of Performance:** 2015–2016

RESPEC worked with the University of Minnesota (UMN), Minnesota Department of Commerce, and Minnesota Geospatial Information Office to redesign the Minnesota Solar Suitability App, which is a tool that brings UMN GIS research data to the public. This application allows users to use a map or enter an address and generate a report on the solar suitability of the location. It estimates the amount of energy it could generate, along with the cost and the potential providers. This project uses LiDAR data, a Digital Surface Model, and solar radiation analysis to predict the solar availability of a given area down to the square meter. The primary users of the application are property owners in Minnesota who are interested in the solar potential of their rooftops and the solar installers that serve these consumers. Secondary users include utility companies, state and local governments, and schools. The Minnesota Department of Commerce uses the app to determine which solar projects are eligible for subsidies. RESPEC rebuilt the user interface, expanded reporting capabilities, and improved back-end performance. RESPEC worked with relevant staff at Minnesota's Information Technologies Organization to set up robust, secure infrastructure to port the application to servers that were hosting the application at UMN.



TECHNICAL PROPOSAL

UNDERSTANDING OF THE OBJECTIVES

AI ADVISORY SERVICES ALIGNED WITH NCTCOG OBJECTIVES

RESPEC provides comprehensive AI Advisory Services to clients in both state government and private industry, focusing on aligning organizational goals with key elements such as people, processes, security, ethics, and technology to ensure successful outcomes. Our approach involves in-depth consultations, stakeholder interviews, and comprehensive analysis to uncover the core needs and challenges our clients face. By engaging in our Discovery framework, RESPEC assists clients in gaining a clearer understanding of their goals, strategy, and value proposition while identifying potential risks and establishing a solid foundation for successful project execution. This thorough approach enhances clarity, reduces project uncertainties, and improves stakeholder alignment, ultimately leading to more efficient and effective project outcomes.

RESPEC employs an AI Management Lifecycle that emphasizes business value outcomes, ensuring that real problems are addressed and solved. This initial phase of engagement focuses on aligning people, processes, and technology goals and strategies. We collaborate closely with organizations to implement their AI plans, train their teams, and report the success of the AI solutions, ensuring that the objectives of NCTCOG and its members are met with precision and effectiveness.

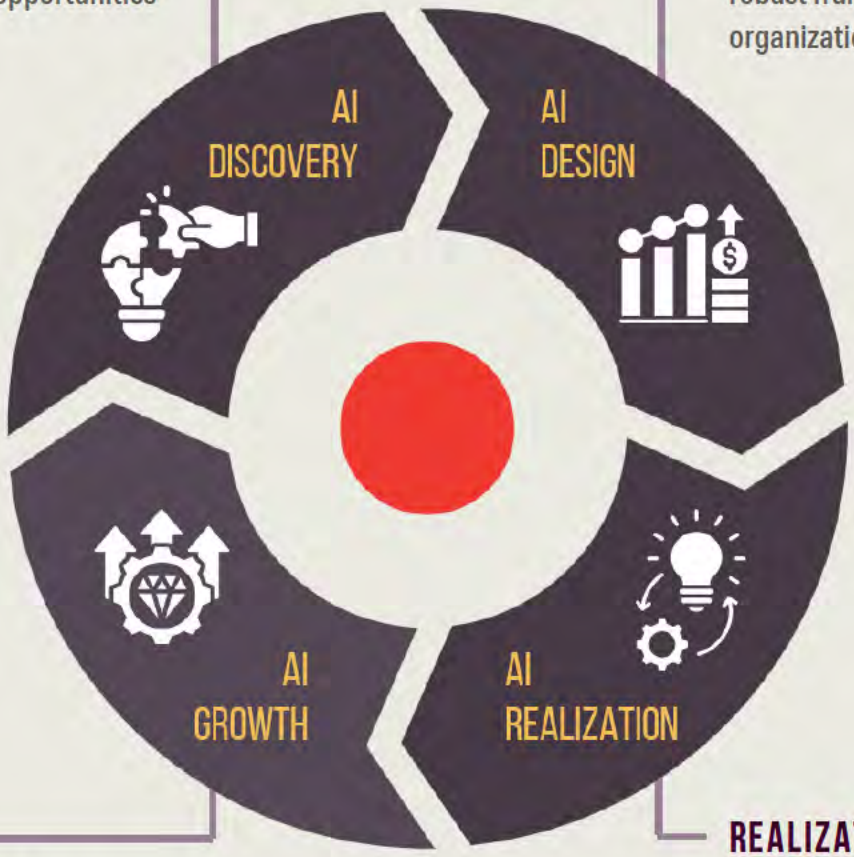
AI MANAGEMENT LIFECYCLE | AI FOCUS ACROSS THE LIFECYCLE

DISCOVERY

In the Discovery phase, RESPEC focuses on identifying desired business outcomes and linking them to their symptoms and their root causes that can be managed throughout the AI solution lifecycle. This ensures a comprehensive understanding of the challenges and opportunities present.

DESIGN

During the Design phase, we apply proven principles and best practices to ensure that the solution achieves the expected business outcomes, satisfies the security, ethical, and technical requirements, and includes measurable components. This phase is crucial for creating a robust framework that aligns with organizational goals.



GROWTH

In the Growth phase, we collaborate to identify new challenges that could either erode the solution's value, risks, or present opportunities to enhance the value already realized. This proactive approach ensures continuous improvement and maximization of benefits.

REALIZATION

The Realization phase involves aligning on the correct metrics that demonstrate progress toward the expected outcomes. These metrics are monitored and adjusted iteratively, ensuring that the value of your investment is maintained and effectively demonstrated over time.

METHODOLOGY TO PERFORM THE SCOPE OF WORK

AI STRATEGY DEVELOPMENT

To develop an AI strategy, RESPEC conducts a comprehensive AI landscape analysis. This process begins with interviewing key stakeholders across the organization to determine current challenges, identify recurring themes, and compile a list of strategic and tactical issues.

Following this, we perform a current state mapping to identify and document the existing processes, systems, and data flows within the current ecosystem. During this phase, RESPEC facilitates a root cause analysis, guiding stakeholders through in-depth exercises to uncover the underlying and upstream causes.

Collaboration with the organization is crucial to align stakeholders effectively. Our analysis informs the development of business cases and engagement plans, helping the organization prioritize projects and challenges that AI can address. The AI landscape analysis culminates in the creation of an AI Strategy Report, which includes both a detailed document and a presentation read-out.

Deliverable

- AI Strategy Report

FEASIBILITY STUDY AND USE CASE IDENTIFICATION

Once use cases are identified, RESPEC begins evaluating their feasibility and potential value. We create a business value-framing document that defines and aligns on what success and value look like for the organization, translating current pain points into business value-based outcomes. This is followed by a solution impact analysis, where we conduct an in-depth examination of existing AI solutions and processes to understand the real impact on the business of maintaining the status quo. This analysis includes the pros, cons, and risk-benefits, along with determining the associated compliance requirements.

We then move to future state mapping, collaborating with both business and technical stakeholders to identify and design a future state that is achievable for the organization. This ensures that the feasibility of the AI solution is aligned with the organization's data readiness and overall feasibility.

The process of uncovering value enables us to create an AI Transformation Plan that encompasses use case identification, feasibility, and value of each use case.

Deliverable

- Feasibility Study with AI Use Cases

AI SOLUTION DESIGN AND ROADMAP

The process of AI solution design begins with the creation of comprehensive business, functional, and technical level requirements. RESPEC conducts thorough research to provide a shortlist of potential AI solutions that can meet the organization's needs. We evaluate vendors, models, frameworks, and tools, analyzing each to identify the appropriate solution for recommendation.

RESPEC develops a financial model tailored to the organization's needs, which may include various analyses, such as Return on Investment, Total Cost of Ownership, Build versus Buy, Cost of Indecision, and Project Net Present Value. This financial assessment helps in making informed decisions regarding the AI solution.

In collaboration with the organization, RESPEC constructs an AI roadmap and success planning framework. Success planning encompasses ownership, governance models, implementation, change management, and data integration strategies, ensuring a structured approach to AI adoption.

Deliverables

- 5-Year AI Roadmap
- Pilot Implementation Plan

PILOT TESTING AND IMPLEMENTATION SUPPORT

RESPEC will assemble a dedicated project team to oversee the pilot AI solution, emphasizing the importance of data readiness, engineering, and process control. Our comprehensive support includes project management, vendor management, and solution implementation. We establish defined baselines and key performance indicators that the solution will aim to achieve. A structured plan is developed to measure, analyze, and improve the system through rigorous development, testing, and change control processes. Throughout the pilot, we focus on measuring performance, managing progress, and maintaining communication with stakeholders.

Upon completion of the initial project, RESPEC collaborates with the organization to provide tailored post-implementation support that meets their specific needs. We deliver a final project report that includes an evaluation against our initial assessment, along with recommendations and improvements to the AI Strategy and Planning documents. This ensures that enhancements for future phases and roadmaps are well-informed and strategically aligned.

Deliverable

- Final Project Report, including project evaluation, outcomes, and recommendations for further AI integration

TRAINING ADOPTION AND CAPACITY BUILDING

RESPEC is committed to ensuring that our clients' staff are thoroughly trained and prepared to ethically and securely use and manage their AI solutions. We will develop comprehensive training materials, conduct interactive workshops, and record training sessions. This training material and recorded repository will enable the client to facilitate future staff training as needed. Training will be conducted via video calls before the Go Live date and post-implementation as required. Our approach includes role-specific training, covering both functional and technical information necessary for using, supporting, and maintaining the system. While some training sessions will be user-focused, others will concentrate on the system's technical support aspects.

Our training methodology incorporates the "See One, Do One, Train One" model for current staff:

- **See One.** RESPEC will train the client's staff to perform an action through demonstration meetings, training-specific meetings, and one-on-one requests.
- **Do One.** The client will have access to the system throughout the development process to develop, perform workflows, and test the system.
- **Train One.** RESPEC recommends that the client conduct training for developers and users. This affirms that the client has enhanced confidence in using and understanding the system. RESPEC desires to attend these training courses for end users but strongly advocates that the client's staff be confident in training stakeholders.

Deliverable

- Staff training sessions and knowledge transfer plan and materials

UNDERSTANDING OF THE REQUIREMENTS

REQUIREMENTS

RESPEC has experience fulfilling all requirements listed in this Request for Proposals, as demonstrated by our example projects. Our expertise extends beyond these examples to include numerous non-listed AI projects where we have successfully performed similar requirements and specifications. As experts in the field, we consistently guide our clients through each of these requirements, ensuring that their needs are met with precision and expertise.

REQUIREMENTS	CDOT MS4 Program Support	South Dakota Flood Information System	Drone-Based Deep Learning Model "IRIS"	National Patient Information Reporting System	Minnesota Solar Suitability App
Consulting Experience and Qualifications	●	●	●	●	●
Data Security and Privacy Compliance	●	●	●	●	●
Project Management and Reporting	●	●	●	●	●
Data Strategy and Management	●	●	●	●	●
Ethical AI	●		●	●	

DELIVERABLES

RESPEC possesses experience in performing the full lifecycle of AI Value Analysis. We have outlined below how we deliver on each of the required deliverables:

- **Initial AI Strategy Report:** We provide a comprehensive report that outlines the strategic approach to AI implementation, aligning with organizational goals and identifying key opportunities for AI integration.
- **Feasibility Study with AI Use Case recommendation:** This includes a detailed data strategy component, evaluating the feasibility and potential value of AI use cases, and ensuring alignment with data readiness and organizational objectives.
- **5-Year AI Roadmap and Detailed AI Implementation Plan:** We develop a long-term roadmap and implementation plan that outlines the steps necessary to achieve AI integration, including governance, timelines, and resource allocation.
- **Pilot Implementation Plan:** Our plan details the approach for piloting AI solutions, including project management, data readiness, and performance metrics to ensure successful implementation.
- **Staff Training Sessions and Knowledge Transfer Plan and Materials:** We conduct comprehensive training sessions and provide materials to ensure that staff are equipped to use and manage AI solutions effectively, facilitating ongoing knowledge transfer.
- **Final Project Report:** This report includes a thorough evaluation of the project, detailing outcomes and providing recommendations for further AI integration to enhance organizational capabilities.

CONFIDENTIAL/PROPRIETARY INFORMATION

PROPOSAL PRICING

Our Rate Card is provided below.

Proposed Pricing for RFP No. 2025-023			
RESPEC Company, LLC			
Item	**Description**	**Price per Hour**	**Conditions**
1	Contract Manager	$200	N/A
2	Industry Lead	$250	N/A
3	Project Manager	$175	N/A
4	AI Advisory Consultant	$200	N/A
5	Staff Scientist	$185	N/A
6	Software Consultant	$140	N/A
7	UX Consultant	$120	N/A
8	Associate Consultant	$90	N/A
9	Designer	$105	N/A
10	Engineering Technician	$85	N/A
11	Administrative Support	$80	N/A
12	Contractors	N/A	N/A

Expenses	
Mileage	Federal Regulatory Rate
Drone Rental	$500 per day
Travel related expenses	At Cost plus 10%
Subconsultant	At Cost plus 10%
All Other Project Expenses	At Cost plus 10%

HUB BONUS

RESPEC is not a Historically Underutilized Business (HUB), Minority, Women-Owned, or Disadvantaged Business Enterprise.

APPENDIX A. RÉSUMÉS

The qualifications of our proposed staff were outlined in the Key Personnel section above. As an extension of that section, detailed professional backgrounds are provided here in full résumés.

ANDREA WORTHY

CONTRACT MANAGER

OVERVIEW

Andrea Worthy is a demonstrated program and project manager with 27 years of experience managing a diverse array of software development projects, including custom software applications, mobile applications, e-commerce websites, and information systems that include artificial intelligence and decision making functionality. Her proficiency in Agile, Scrum, and Kanban methodologies, combined with her technical acumen in a variety of programming languages and tools, has enabled her to deliver projects that meet and exceed business objectives. Andrea's exceptional communication skills, attention to detail, and adaptability have allowed her to effectively manage contracts. She will assign appropriate staff to each project's Statement of Work to ensure alignment with stakeholder expectations. Her hands-on experience with project documentation, software development life cycles, quality assurance, and risk management underscores her comprehensive skill set as a leader in technology project management.

TECHNICAL EXPERTISE

- Program Management
- Contract Management
- Project Management
- Software Development
- Information Systems
- Mobile Technology
- Quality Assurance

EDUCATION

- Course Work in Business Administration, Collin College, McKinney, TX

PROFESSIONAL MEMBERSHIPS

- Project Management Institute – Dallas Chapter
- Scrum.org

CERTIFICATIONS & TRAINING

- Certified Scrum Master (2021)
- PMP Certification Training 35 Hours (2020)
- MS Project Training 40 Hours (2002)
- MS Access Training (1998)

WORK HISTORY

- RESPEC (2019–Present)
- Concentrix (2012–2018)
- Affiliated Computer Systems, Inc. (2010–2012)
- SiteToolSet.com LLC (2009–2010)
- Ariesnet.com (2007–2009)
- Match.com (2005–2007)
- RealPage Inc. (2003–2005)
- Greyhound Lines, Inc. (1999–2003)
- Sea-Land Services, Inc. (1997–1999)

PROJECT EXPERIENCE

Montana Department of Natural Resources & Conservation, Helena, Montana

Delivery/Project Manager

- Managed the Contract and Statement of Work between RESPEC and the DNRC totaling thirty on going amendments for the past 6 fiscal years
- Leading the modernization of the legacy Water Right Information Systems, include data reports, AI decision making processes and iterative upgrades to the application baed on state manadated requirements.
- Project manager over a team of 10 in SCRUM/Product Owner metholodies include State IT and RESPEC team members
- Production Operations managing new code releases monthly to the DRNC staff.
- Facilitation and collaboration with the Product Owners at the DRNC to shape legislative requirements into user stories and requirements for the software development team.

Texas Historic Commission – Texas Atlas Enhancement Project, Austin, Texas

Delivery Manager

- Managed the Contracts and Statement of Work between the THC and RESPEC for the past 2 years
- Initiating Project Manager kicking off the project scope and discovery deliverables with the project team
- Providing the Texas Historic Commission stakeholders with weekly status reports and removing roadblocks with the Agile team
- Providing updates to the project plan, deliverables, and overall project budget

New Mexico Cultural Resource Information System, State of New Mexico State Historic Preservation Office Santa Fe, New Mexico

Delivery Manager

- Managing the overall client expectations, including Contract and Statement of Work, timeline, and risk management, for the past 4 years
- Revitalize the overall project with new Agile methodologies to synthesize the successful project completion with a new development team
- Managing the overall client expectations, including scope, timeline, and risk management and monthly budget tracking

WILLIAM MECIER

HYDROINFORMATIC SCIENTIST

OVERVIEW

William Mecier is a Hydroinformatic Scientist with 7 years of professional experience directly related to GIS, AI integration, surface water, and hydraulic modeling. With a recent and valuable M.Sc. educational experience in control algorithms, artificial intelligence (AI), and computational hydraulics, he has developed turnkey artificial intelligence solutions, flood risk maps, automated engineer workflow processes in Python and R, and consulted on statistical methods for hydrograph determinations.

TECHNICAL EXPERIENCE

AI/Machine Learning (ML). William has educational experience in training and creating Machine Learning systems (AI, ML classification, ML regression, Neural networks, data preprocessing, and computer-vision). These systems process large amounts of data and provide statistical insight for decision support, long-term feasibility, and rapid data-rich model creation.

Data Analysis and Automation. William has professional and educational experience in Python, R, Matlab, SQL, and , of which he has written code for computational hydraulics, ArcGIS process automation, data collection and process automation for CUHP, data collection for Mile High Flood District (MHFD) projects, and canal control algorithms.

H&H Modeling. William has created and designed numerous 1D and 2D hydraulic models. With experience in computational hydraulics, he has deep knowledge of the governing equations and use of HEC-RAS, Flood Modeller, FEFLOW, Telemac-2D, InfoWater Pro, Iber, CityCat, SWMM, PCSWMM, Flow-3D Hydro, DELFT3D, and others.

PROJECT EXPERIENCE

104th Avenue Widening – Colorado Boulevard to U.S. 85, City of Thornton, Colorado. William is assisting with developing the South Platte River floodplain and HEC-RAS 2D model. The overall project includes 3 miles of roadway widening and developing solutions to reduce inundation by the Federal Emergency Management Agency-regulated Grange Hall Creek, South Platte River, and First Creek floodplains.

Prairie Dog Draw Master Drainageway Plan (MDP) and Flood Hazard Area Delineation (FHAD), MHFD, Colorado. William is leading the hydrology and automation for Prairie Dog Draw MDP and FHAD project, which is approximately 6 square miles and tributary to Coyote Run and Box Elder. Prairie Dog Draw is a test study for new MDP deliverables, which includes using ArcGIS online servers to streamline data entry for the MHFD Confluence website.

Walnut Creek Stream Improvements, MHFD, Colorado. William is developing a RAS-2D model assessing the current channel and bank conditions required to complete a conceptual design for over a mile of stream which passes through the site. The project focused on stream improvement using MHFD stream design and preserving existing wetlands.

First and Second Creek Living Models, MHFD, Colorado. William is assisting in developing the living models for First Creek and Second Creek. This project includes revisions to and review of CUHP and SWMM models of these watersheds to incorporate both proposed and approved developments as they occur. The goal is to examine the impact of detention ponds, sub-catchment boundary revisions, and changes to imperviousness on peak flows throughout the First Creek and Second Creek watersheds.

TECHNICAL EXPERTISE

- 1D/2D Hydraulic Modeling
- Data Analysis and Automation
- Hydrology and Rainfall Analysis
- Artificial Intelligence/Machine Learning

EDUCATION

- MSc in Hydroinformatics and Water Management, Universitat Politecnica de Catalunya, EuroAquae+, Barcelona, Spain (2023)
- BS in Environmental Science and Technology, Colorado Mesa University, Grand Junction, CO (2017)

REGISTRATIONS & LICENSES

- State of Colorado Certified Water Professional
- State of Colorado Water Operator D Level
- State of Texas Water Operator and Distribution D Level
- State of Texas Water Operator and Distribution C Level

PROFESSIONAL MEMBERSHIPS

- Water Environment Federation Member

CERTIFICATIONS & TRAINING

- FAA Part 107 UAV Pilot Certification
- HAZWOPER 40-Hour
- HydroEurope 2023 Cohort

WORK HISTORY

- RESPEC (2023–Present)
- Lower Colorado River Authority (2020–2021)
- Travis County Water Control and Irrigation District #17 (2019–2020)
- Eagle River Water and Sanitation District (2018-2019)
- Vail Resorts (2018)

PETER P. RAUSCH, PE, CFM

WATERSHED MANAGEMENT PROGRAM LEAD

OVERVIEW

Peter Rausch leads RESPEC's Watershed Management Program, responsible $1.2 million in annual revenue. He is a licensed Professional Engineer (PE) and a Certified Floodplain Manager (CFM). Working with RESPEC since 2010, Peter has expertise in a wide variety of watershed management applications, including artificial intelligence and machine learning optimizing large datasets. Peter has managed a wide range of projects such as large-scale floodplain modeling, irrigation optimization, stormwater systems management, sustainable stream restoration, and remote monitoring systems. Notably, Peter uses 2D modeling to deliver accurate floodplain analyses, including complex models like Sioux Falls' 36-mile river system. His solutions emphasize sustainable planning, data-driven strategies, and adaptive processes to improve water system management and public-sector service delivery. His expertise extends to developing sustainable solutions for watershed planning and implementing data-driven strategies to enhance public-sector service delivery. With his range of financial, project, and technical management experience, Peter leads projects that optimize processes, improve decision-making, and enhance water system management.

TECHNICAL EXPERTISE

- Floodplain Modeling
- Stream Channel Restoration
- Irrigation System Design
- Surface-Water Quality and Quantity Monitoring Plans
- Urban Stormwater Management
- Remote Monitoring and Control Systems

EDUCATION

- MS in Civil Engineering, South Dakota School of Mines & Technology, Rapid City, SD (2012)
- BS in Civil and Environmental Engineering, South Dakota School of Mines & Technology, Rapid City, SD (2010)

REGISTRATIONS & LICENSES

- Professional Engineer (PE) in South Dakota, Minnesota, and Wyoming
- Certified Floodplain Manager (CFM)

PROFESSIONAL MEMBERSHIPS

- National Society of Professional Engineers (NSPE)
- American Society of Civil Engineers (ASCE)
- Association of State Floodplain Managers (ASFPM)

HONORS & AWARDS

- South Dakota Engineering Society (SDES) Black Hills Chapter Young Engineer of the Year (2017)
- South Dakota American Council of Engineering Companies (ACEC) Emerging Leaders Program Graduate (2017)

WORK HISTORY

- RESPEC (2010–Present)
- South Dakota School of Mines & Technology (2010–2012)
- US Forest Service (2007–2010)

PROJECT EXPERIENCE

South Dakota Flood Information System, South Dakota Department of Agriculture and Natural Resources, Eastern South Dakota. Peter was a floodplain modeler and automation specialist for this project. RESPEC worked with the SD DENR and local floodplain managers to develop a flood information system for the Big Sioux River Basin. The Big Sioux River Basin has historically experienced repeated flooding. A major flood in the lower basin in 2014 revealed the lack of understanding of how this area behaves hydrologically during flood events. Available data were not deemed adequate to enable state and local authorities to prepare for imminent flood events. This project involved a hydrologic and hydraulic study that provides state and local entities with information necessary to better prepare for future flood events. The data and model generated from this study allows flood managers to predict the impacted areas for a range of flood scenarios, which allows state and local entities to implement appropriate protection strategies in advance of flood waters. Real-time and historical water levels, discharge data, and rainfall conditions are available in the interface by streaming data from automated bridge sensors, U.S. Geological Survey stream gauges, NEXRAD radars, and National Weather Service (NWS) forecasts. The system includes a rainfall-runoff forecast model to provide a flood risk estimate at critical locations throughout the basin to supplement and support NWS forecasts. The most complex of these models, for the city of Sioux Falls, includes a combined 36 river miles of the Big Sioux River, Skunk Creek, and the Big Sioux Diversion Channel; 41 bridges; 13 miles of levees; 2 gated dams; and a waterfall. Peter developed the model with a combination of both 1- and 2D components to produce an efficient model with accurate flooding representation. He also programmed the gated dams in the model to react and adapt on the fly to a wide range of flow scenarios and combinations. The system provides the user with a relative understanding of the current and forecasted conditions in relation to flood response action levels specific to the location. This system also allows select users to run terrain scenarios and to assess impacts of flood management strategies.

Central Big Sioux Water Quality Master Plan, Southeastern South Dakota. RESPEC prepared a Water Quality Master Plan for the Central Big Sioux River Watershed to evaluate and prioritize BMP implementation efforts. Peter had substantial involvement in developing a decision-support framework (DSF) to guide selection of the most cost-effective, achievable, and practical management strategies. Using his experience with BMP design and evaluation for both Natural Resources Conservation Service (NRCS) and municipal projects, Peter developed a cost and pollutant reduction efficiency matrix for a suite of urban and agricultural BMPs to drive the logic of the DSF.

GLENN YOUNG

DATA WAREHOUSE ARCHITECT/PRINCIPAL CONSULTANT

OVERVIEW

Glenn Young has 38 years of experience as a solutions architect and software developer. He also has more than 25 years of experience as a project manager and data warehouse architect. Glenn's experience in nuclear engineering, pharmaceutical, and medical environments, coupled with independent verification and validation (IV&V), has given him a unique approach to implementing emerging technologies and modern methodologies to the data warehouse arena. He is the primary design and data warehouse architect for Indian Health Service's National Data Warehouse. His experience with the warehouse has included designing the warehouse, marts, applications, reporting, and data mining. He has experience supporting the entire project life cycle as a lead developer, lead architect, project manager, and IV&V reviewer. Glenn has also used ArcGIS to support regional government planning and healthcare issue analysis.

TECHNICAL EXPERTISE

- Database Architecture and Data Warehousing
- Data Mining Application Creation and Integration Expert
- Business Intelligence Specialist
- Application Development
- Independent Verification and Validation
- Hardware Design Specialist

EDUCATION

- BS in Mathematics, University of Normandy, Surrey, United Kingdom

PROFESSIONAL MEMBERSHIPS

- IEEE (Seated Database Committee)

CERTIFICATIONS & TRAINING

- IBM DB2 9.0 LUW DBA
- Certified Business Intelligence Professional (CBIP)
- HADOOP
- Storage and Enterprise Architecture
- FEMA Disaster Response
- Certified Scrum Master (CSM)
- ITILv4
- CompTia Server+

WORK HISTORY

- RESPEC (2017–Present)
- RESPEC/POD (2008–2016)
- Chickasaw Nation Industries (2003–2008)
- Phoenix Design Systems (1999–2003)
- Tier Engineering (1986–1999)

PROJECT EXPERIENCE

IHS, Albuquerque, New Mexico

Senior Data Warehouse Architect for the National Patient Information Reporting System (NPIRS)

- Providing computer systems engineering and software services for the electronic health record (EHR) and hardware located at IHS health facilities, regional offices, and tribal and urban facilities
- Maintaining continuous systems operation for using the IHS EHR
- Developing cloud solutions and proofs of concept for the IHS
- Implemented the data warehouse and associated data marts and data stores
- Led a team of data analysts in defining the overall system and application architecture for the second-generation NDW, which will incorporate diverse data inputs
- Led the team designing and developing the complete infrastructure scope, which includes all data standards, data marts, and the detailed technical design for this data warehouse
- Evaluated and selected the infrastructure components (including the software, hardware, database warehouse management systems, and networking capabilities) to meet all of the stated requirements for the second-generation NDW
- Provided the research, detailed design specifications, and data standards for the human interface component that will use the Business Intelligence structure and hierarchy, which includes data mining and reporting that is supported by both thick and thin provisioning
- Ensured complete system security and meeting the privacy act and Health Insurance Portability and Accountability Act requirements throughout the design
- Designed the fault-tolerant, high-availability environment used by the NDW. The database is fully supported by metadata management to ensure complete data governance.
- Configured the server systems and high-availability failover used by the NDW
- Designed the servers, storage, backup system, high-speed network, redundant fabrics, and high-availability failover used by the NDW which reduced backups from 2 days to less than 1 hour and critical reporting from 4 days to less than 45 minutes
- Ensured that his staff received training in the software systems tied to the data warehouse, (including SAP, AIX, VMWare, Storage Management, SharePoint development and administration, networking, and Project Server)

PAUL W. SENNE

DEVELOPER/MANAGER

OVERVIEW

Paul Senne's professional experience includes 17 years of spatial analysis and application development using open-source and proprietary software to build technological solutions around water resource management issues. With expertise in project management and application design, Paul is instrumental in crafting strategies that streamline operations and bolster decision-making through advanced technologies. Paul is experienced in using large geospatial datasets and developing process automation to derive useful outputs for policy decision-making. Paul excels at creating applications that feature intuitive user interfaces and reliable data management systems. His proficiency with open-source tools such as PostGIS and PostgreSQL enables him to design data architectures that prioritize governance, accuracy, and security. A staunch advocate of ethical AI, Paul will ensure compliance with public-sector standards while delivering user-focused solutions that simplify complex technologies. His ability to translate technical concepts into actionable insights ensures seamless integration of AI tools within organizational processes.

TECHNICAL EXPERIENCE

Application Development. Paul has helped to design and build complex applications driven by spatial databases with dynamic web interfaces. In development, Paul works considerably with open-source software and frameworks, including PostGIS/PostgreSQL, GeoServer, Python Flask, Angular, OpenLayers, LeafLet, Bootstrap, jQuery, and so on. He has experience with various languages used in development, including Python, JavaScript/TypeScript, C#.NET, SQL, PHP, and MATLAB.

Spatial Data Analysis. Data analysis is part of nearly every project Paul has worked on throughout his career. GIS work is driven by the need to comprehend and make sense of spatial data as they relate to whatever problem is being addressed. Paul has leveraged his experience from the beginning of his career with the State of Minnesota to his present consulting work and has applied his technical skillsets to condensing datasets into visually comprehensible components that can be used to shape decision-making. Paul has vast experience in all aspects of the data analysis process, from performing statistical analyses to data summary and visualization.

Relational and Spatial Databases. Paul has an in-depth knowledge and understanding of relational databases used on the back end of web applications and is fluent in using SQL for accessing and summarizing data from Oracle, SQL Server, and PosgreSQL. Paul has built dynamic web applications that use relational databases to collect and summarize data and has created data-driven content for internal and external web applications. Paul's database experience connects with his GIS expertise; he frequently uses spatial databases such as PostGIS and has administered an ArcGIS Server that runs on Oracle.

Hydrology and Watershed Modeling. Paul has been involved in HSPF model development while at RESPEC. He has used GIS to extract and summarize data to develop function tables (extended rating curves) for models; delineate subwatersheds, segment reaches, and developed land-use inputs; and develop spatial and temporal datasets for models. Paul's experience also includes developing spatial and temporal datasets for HEC-GeoHMS as well as hydroconditioning Light Detection and Ranging- (LiDAR-)derived elevation models and using them to conduct terrain analyses, such as the stream power index (SPI) and compound topographic index (CTI) for watershed planning. Finally, on several projects, he has assisted in data generation used for Total Maximum Daily Load development.

TECHNICAL EXPERTISE

- Project Management
- Application Development
- Spatial Data Analysis
- Relational and Spatial Databases
- Hydrology and Watershed Modeling

EDUCATION

- MPA in Environmental Policy and Natural Resources Management, Indiana University School of Public and Environmental Affairs, Bloomington, IN (2001)
- BA in Geography (Minor in Biology and Environmental Studies), Valparaiso University, Valparaiso, IN (1999)

PROFESSIONAL MEMBERSHIPS

- Minnesota Geographic Information System/Land Information System (GIS/LIS) Consortium
- Environmental Quality Committee (EQC) for the City of Plymouth, MN
  - Appointed (2015–2018; 2018–2021; 2021–2024)
  - Chair (2018–2019)
  - Vice Chair (2017–2018)

WORK HISTORY

- RESPEC (2013–Present)
- Minnesota Board of Water and Soil Resources (2008–2013)
- Minnesota Legislature (2008)
- Minnesota Department of Agriculture (2007)

ATTACHMENT I.

INSTRUCTIONS FOR PROPOSALS COMPLIANCE AND SUBMITTAL

ATTACHMENT I: INSTRUCTIONS
FOR PROPOSALS COMPLIANCE AND SUBMITTAL

Compliance with the Solicitation

Submissions must be in strict compliance with this solicitation. Failure to comply with all provisions of the solicitation may result in disqualification.

Compliance with the NCTCOG Standard Terms and Conditions

By signing its submission, Offeror acknowledges that it has read, understands and agrees to comply with the NCTCOG standard terms and conditions.

Acknowledgment of Insurance Requirements

By signing its submission, Offeror acknowledges that it has read and understands the insurance requirements for the submission. Offeror also understands that the evidence of required insurance must be submitted within ten (10) working days following notification of its offer being accepted; otherwise, NCTCOG may rescind its acceptance of the Offeror's proposals. The insurance requirements are outlined in Section 2.2 - General Terms and Conditions.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative:

Date: January 13, 2025

ATTACHMENT II.

CERTIFICATIONS OF OFFEROR

ATTACHMENT II: CERTIFICATIONS OF OFFEROR

I hereby certify that the information contained in this proposal and any attachments is true and correct and may be viewed as an accurate representation of proposed services to be provided by this organization. I certify that no employee, board member, or agent of the North Central Texas Council of Governments has assisted in the preparation of this proposal. I acknowledge that I have read and understand the requirements and provisions of the solicitation and that the organization will comply with the regulations and other applicable local, state, and federal regulations and directives in the implementation of this contract.

I also certify that I have read and understood all sections of this solicitation and will comply with all the terms and conditions as stated; and furthermore that I, Meagan Chaddick (typed or printed name) certify that I am the Senior Vice President (title) of the corporation, partnership, or sole proprietorship, or other eligible entity named as offeror and respondent herein and that I am legally authorized to sign this offer and to submit it to the North Central Texas Council of Governments, on behalf of said offeror by authority of its governing body.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative:

Date: January 13, 2025

ATTACHMENT III.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS

ATTACHMENT III: CERTIFICATION
REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS

This certification is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 93, Government-wide Debarment and Suspension, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668, 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned certifies, to the best of his or her knowledge and belief, that both it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;

2. Have not within a three-year period preceding this contract been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction, violation of federal or State antitrust statues or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false Proposals, or receiving stolen property;

3. Are not presently indicated for or otherwise criminally or civilly charged by a government entity with commission of any of the offense enumerated in Paragraph (2) of this certification; and,

4. Have not within a three-year period preceding this contract had one or more public transactions terminated for cause or default.

Where the prospective recipient of federal assistance funds is unable to certify to any of the qualifications in this certification, such prospective recipient shall attach an explanation to this certification form.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative: 

Date: January 13, 2025

ATTACHMENT IV.

RESTRICTIONS ON LOBBYING

ATTACHMENT IV: RESTRICTIONS ON LOBBYING

Section 319 of Public Law 101-121 prohibits recipients of federal contracts, grants, and loans exceeding $100,000 at any tier under a federal contract from using appropriated funds for lobbying the Executive or Legislative Branches of the federal government in connection with a specific contract, grant, or loan. Section 319 also requires each person who requests or receives a federal contract or grant in excess of $100,000 to disclose lobbying.

No appropriated funds may be expended by the recipient of a federal contract, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any federal executive department or agency as well as any independent regulatory commission or government corporation, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered federal actions: the awarding of any federal contract, the making of any federal grant, the making of any federal loan the entering into of any cooperative agreement and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

As a recipient of a federal grant exceeding $100,000, NCTCOG requires its subcontractors of that grant to file a certification, set forth in Appendix B.1, that neither the agency nor its employees have made, or will make, any payment prohibited by the preceding paragraph.

Subcontractors are also required to file with NCTCOG a disclosure form, set forth in Appendix B.2, if the subcontractor or its employees have made or have agreed to make any payment using nonappropriated funds (to include profits from any federal action), which would be prohibited if paid for with appropriated funds.

LOBBYING CERTIFICATION
FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS

The undersigned certifies, to the best of his or her knowledge or belief, that:

1. No federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an officer or employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal loan, the entering into of any cooperative Contract, and the extension, continuation, renewal, amendment, or modification or any federal contract, grant, loan, or cooperative contract; and

2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, and or cooperative contract, the undersigned shall complete and submit Standard Form – LLL, "Disclosure Form to Report Lobbying", in accordance with the instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers and that all sub-recipients shall certify accordingly.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative:

Date: January 13, 2025

ATTACHMENT V.

DRUG-FREE WORKPLACE CERTIFICATION

ATTACHMENT V: DRUG-FREE WORKPLACE CERTIFICATION

The RESPEC Company LLC (company name) will provide a Drug Free Work Place in compliance with the Drug Free Work Place Act of 1988. The unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited on the premises of the RESPEC Company LLC (company name) or any of its facilities. Any employee who violates this prohibition will be subject to disciplinary action up to and including termination. All employees, as a condition of employment, will comply with this policy.

CERTIFICATION REGARDING DRUG-FREE WORKPLACE

This certification is required by the Federal Regulations Implementing Sections 5151-5160 of the Drug-Free Workplace Act, 41 U.S.C. 701, for the Department of Agriculture (7 CFR Part 3017), Department of Labor (29 CFR Part 98), Department of Education (34 CFR Parts 85, 668 and 682), Department of Health and Human Services (45 CFR Part 76).

The undersigned subcontractor certifies it will provide a drug-free workplace by:

Publishing a policy Proposal notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace and specifying the consequences of any such action by an employee;

Establishing an ongoing drug-free awareness program to inform employees of the dangers of drug abuse in the workplace, the subcontractor's policy of maintaining a drug-free workplace, the availability of counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed on employees for drug violations in the workplace;

Providing each employee with a copy of the subcontractor's policy Proposal;

Notifying the employees in the subcontractor's policy Proposal that as a condition of employment under this subcontract, employees shall abide by the terms of the policy Proposal and notifying the subcontractor in writing within five days after any conviction for a violation by the employee of a criminal drug abuse statue in the workplace;

Notifying the Board within ten (10) days of the subcontractor's receipt of a notice of a conviction of any employee; and,

Taking appropriate personnel action against an employee convicted of violating a criminal drug statue or requires such employee to participate in a drug abuse assistance or rehabilitation program.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative:

Date: January 13, 2025

ATTACHMENT VI.

DISCLOSURE OF CONFLICT OF INTEREST CERTIFICATION REGARDING DISCLOSURE OF CONFLICT OF INTEREST

ATTACHMENT VI: DISCLOSURE OF CONFLICT OF INTEREST
CERTIFICATION REGARDING DISCLOSURE OF CONFLICT OF INTEREST

The undersigned certifies that, to the best of his or her knowledge or belief, that:

"No employee of the contractor, no member of the contractor's governing board or body, and no person who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of this contract shall participate in any decision relating to this contract which affects his/her personal pecuniary interest.

Executives and employees of contractor shall be particularly aware of the varying degrees of influence that can be exerted by personal friends and associates and, in administering the contract, shall exercise due diligence to avoid situations which give rise to an assertion that favorable treatment is being granted to friends and associates. When it is in the public interest for the contractor to conduct business with a friend or associate of an executive or employee of the contractor, an elected official in the area or a member of the North Central Texas Council of Governments, a permanent record of the transaction shall be retained.

Any executive or employee of the contractor, an elected official in the area or a member of the NCTCOG, shall not solicit or accept money or any other consideration from a third person, for the performance of an act reimbursed in whole or part by contractor or Department. Supplies, tools, materials, equipment or services purchased with contract funds shall be used solely for purposes allowed under this contract. No member of the NCTCOG shall cast a vote on the provision of services by that member (or any organization which that member represents) or vote on any matter which would provide a direct or indirect financial benefit to the member or any business or organization which the member directly represents".

No officer, employee or paid consultant of the contractor is a member of the NCTCOG.

No officer, manager or paid consultant of the contractor is married to a member of the NCTCOG.

No member of NCTCOG directly owns, controls or has interest in the contractor.

The contractor has disclosed any interest, fact, or circumstance that does or may present a potential conflict of interest.

No member of the NCTCOG receives compensation from the contractor for lobbying activities as defined in Chapter 305 of the Texas Government Code.

Should the contractor fail to abide by the foregoing covenants and affirmations regarding conflict of interest, the contractor shall not be entitled to the recovery of any costs or expenses incurred in relation to the contract and shall immediately refund to the North Central Texas Council of Governments any fees or expenses that may have been paid under this contract and shall further be liable for any other costs incurred or damages sustained by the NCTCOG as it relates to this contract.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative: 

Date: January 13, 2025

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY
Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

RESPEC Company LLC

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 **Name of local government officer about whom the information is being disclosed.**

N/A

Name of Officer

4 **Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.**

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☑ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☑ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

N/A

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 MLL

Signature of vendor doing business with the governmental entity

1/31/25

Date

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 1/1/2021

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

ATTACHMENT VII.

CERTIFICATION OF FAIR BUSINESS PRACTICES

ATTACHMENT VII: CERTIFICATION OF FAIR BUSINESS PRACTICES

That the submitter has not been found guilty of unfair business practices in a judicial or state agency administrative proceeding during the preceding year. The submitter further affirms that no officer of the submitter has served as an officer of any company found guilty of unfair business practices in a judicial or state agency administrative during the preceding year.

Name of Organization/Contractor(s):

RESPEC Company LLC

Signature of Authorized Representative:

Date: January 13, 2025

ATTACHMENT VIII.

CERTIFICATION OF GOOD STANDING TEXAS CORPORATE FRANCHISE TAX CERTFICATION

ATTACHMENT VIII: CERTIFICATION OF GOOD STANDING
TEXAS CORPORATE FRANCHISE TAX CERTIFICATION

Pursuant to Article 2.45, Texas Business Corporation Act, state agencies may not contract with for profit corporations that are delinquent in making state franchise tax payments. The following certification that the corporation entering into this offer is current in its franchise taxes must be signed by the individual authorized on Form 2031, Corporate Board of Directors Resolution, to sign the contract for the corporation.

The undersigned authorized representative of the corporation making the offer herein certified that the following indicated Proposal is true and correct and that the undersigned understands that making a false Proposal is a material breach of contract and is grounds for contract cancellation.

Indicate the certification that applies to your corporation:

☑ The Corporation is a for-profit corporation and certifies that it is not delinquent in its franchise tax payments to the State of Texas.

☐ The Corporation is a non-profit corporation or is otherwise not subject to payment of franchise taxes to the State of Texas.

Type of Business (if not corporation):

☐ Sole Proprietor

☐ Partnership

☐ Other

Pursuant to Article 2.45, Texas Business Corporation Act, the North Central Texas Council of Governments reserves the right to request information regarding state franchise tax payments.

Meagan Chaddick, Senior Vice President

(Printed/Typed Name and Title of Authorized Representative)

MC

Signature

Date: 1/13/25

ATTACHMENT IX.

HISTORICALLY UNDERUTILIZED BUSINESSES, MINORITY OR WOMEN-OWNED OR DISADVANTAGED BUSINESS ENTERPRISES

ATTACHMENT IX: HISTORICALLY UNDERUTILIZED BUSINESSES, MINORITY OR WOMEN-OWNED OR DISADVANTAGED BUSINESS ENTERPRISES

Historically Underutilized Businesses (HUBs), minority or women-owned or disadvantaged businesses enterprises (M/W/DBE) are encouraged to participate in the solicitation process.

NCTCOG recognizes the certifications of most agencies. HUB vendors must submit a copy of their certification for consideration during the evaluation of their proposal. Please attach the copy to this form. This applies only to the Offeror and not a subcontractor.

Texas vendors who are not currently certified are encouraged to contact either the Texas United Certification Program, State of Texas HUB Program, or the North Central Texas Regional Certification Agency, among others. Contact:

State of Texas HUB Program
Texas Comptroller of Public Accounts
Lyndon B. Johnson State Office Building
111 East 17th Street
Austin, Texas 78774
(512) 463-6958
http://www.window.state.tx.us/procurement/prog/hub/

North Central Texas Regional Certification Agency
624 Six Flags Drive, Suite 100
Arlington, TX 76011
(817) 640-0606
http://www.nctrca.org/certification.html

Texas United Certification Program
USDOT website at
https://www.transportation.gov/DBE

You must include a copy of your certification document as part of this solicitation to receive points in the evaluation.

Vendor to Sign Below to Attest to Validity of Certification:

RESPEC Company LLC
Vendor Name


Authorized Signature

Meagan Chaddick
Typed Name

January 13, 2025
Date

☐ **Not applicable.**

ATTACHMENT X.

NCTCOG FEDERAL AND STATE OF TEXAS REQUIRED PROCUREMENT PROVISIONS

ATTACHMENT X: NCTCOG FEDERAL AND STATE OF TEXAS REQUIRED PROCUREMENT PROVISIONS

The following provisions are mandated by Federal and/or State of Texas law. Failure to certify to the following will result in disqualification of consideration for contract. Entities or agencies that are not able to comply with the following will be ineligible for consideration of contract award.

PROHIBITED TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT CERTIFICATION

This Contract is subject to the Public Law 115-232, Section 889, and 2 Code of Federal Regulations (CFR) Part 200, including §200.216 and §200.471, for prohibition on certain telecommunications and video surveillance or equipment. Public Law 115-232, Section 889, identifies that restricted telecommunications and video surveillance equipment or services (e.g., phones, internet, video surveillance, cloud servers) include the following:

A) Telecommunications equipment that is produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliates of such entities).
B) Video surveillance and telecommunications equipment produced by Hytera Communications Corporations, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliates of such entities).
C) Telecommunications or video surveillance services used by such entities or using such equipment.
D) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, Director of the National Intelligence, or the Director of the Federal Bureau of Investigation reasonably believes to be an entity owned or controlled by the government of a covered foreign country. The entity identified below, through its authorized representative, hereby certifies that no funds under this Contract will be obligated or expended to procure or obtain telecommunication or video surveillance services or equipment or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as a critical technology as part of any system prohibited by 2 CFR §200.216 and §200.471, or applicable provisions in Public Law 115-232 Section 889.

☑ **The Contractor or Subrecipient hereby certifies that it does comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.**

SIGNATURE OF AUTHORIZED PERSON: MLC

NAME OF AUTHORIZED PERSON: Meagan Chaddick

NAME OF COMPANY: RESPEC Company LLC

DATE: 1/13/25

-OR-

☐ **The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of 2 CFR §200.216 and §200.471, or applicable regulations in Public Law 115-232 Section 889.**

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

DISCRIMINATION AGAINST FIREARMS ENTITIES OR FIREARMS TRADE ASSOCIATIONS

This contract is subject to the Texas Local Government Code chapter 2274, Subtitle F, Title 10, prohibiting contracts with companies who discriminate against firearm and ammunition industries.
TLGC chapter 2274, Subtitle F, Title 10, identifies that "discrimination against a firearm entity or firearm trade association" includes the following:

A) means, with respect to the entity or association, to:
   I. refuse to engage in the trade of any goods or services with the entity or association based solely on its status as a firearm entity or firearm trade association; and
   II. refrain from continuing an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association; or
   III. terminate an existing business relationship with the entity or association based solely on its status as a firearm entity or firearm trade association.

B) An exception to this provision excludes the following:
   I. contracts with a sole-source provider; or
   II. the government entity does not receive bids from companies who can provide written verification.

The entity identified below, through its authorized representative, hereby certifies that they have no practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and that they will not discriminate during the term of the contract against a firearm entity or firearm trade association as prohibited by Chapter 2274, Subtitle F, Title 10 of the Texas Local Government Code.

☑ **The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 2274, Subtitle F, Title 10.**

SIGNATURE OF AUTHORIZED PERSON: MLC

NAME OF AUTHORIZED PERSON: Meagan Chaddick

NAME OF COMPANY: RESPEC Company LLC

DATE: 1/13/25

-OR-

☐ **The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 2274, Subtitle F, Title 10.**

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

BOYCOTTING OF CERTAIN ENERGY COMPANIES

This contract is subject to the Texas Local Government Code chapter 809, Subtitle A, Title 8, prohibiting contracts with companies who boycott certain energy companies.

TLGC chapter Code chapter 809, Subtitle A, Title 8, identifies that "boycott energy company" means, without an ordinary business purpose, refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations with a company because the company:

I. engages in the exploration, production, utilization, transportation, sale, or manufacturing of fossil fuel-based energy and does not commit or pledge to meet environmental standards beyond applicable federal and state law; and

II. does business with a company described by paragraph (I).

The entity identified below, through its authorized representative, hereby certifies that they do not boycott energy companies, and that they will not boycott energy companies during the term of the contract as prohibited by Chapter 809, Subtitle A, Title 8 of the Texas Local Government Code.

■ The Contractor or Subrecipient hereby certifies that it does comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON: MC

NAME OF AUTHORIZED PERSON: Meagan Chaddick

NAME OF COMPANY: RESPEC Company LLC

DATE: 1/13/25

-OR-

☐ The Contractor or Subrecipient hereby certifies that it cannot comply with the requirements of Chapter 809, Subtitle A, Title 8.

SIGNATURE OF AUTHORIZED PERSON: _____

NAME OF AUTHORIZED PERSON: _____

NAME OF COMPANY: _____

DATE: _____

EXHIBIT 1.

SERVICE DESIGNATION AREAS

EXHIBIT 1: SERVICE DESIGNATION AREAS

	Texas Service Area Designation or Identification		
Proposing Firm Name:	RESPEC Company LLC		
Notes:	**Indicate in the appropriate box whether you are proposing to service the entire state of Texas**		
	Will service the entire state of Texas	Will not service the entire state of Texas	
	☑	☐	
	If you are not proposing to service the entire state of Texas, designate on the form below the regions that you are proposing to provide goods and/or services to. By designating a region or regions, you are certifying that you are willing and able to provide the proposed goods and services.		
Item	**Region**	**Metropolitan Statistical Areas**	**Designated Service Area**
1.	North Central Texas	16 counties in the Dallas-Fort Worth Metropolitan area	
2.	High Plains	Amarillo Lubbock	
3.	Northwest	Abilene Wichita Falls	
4.	Upper East	Longview Texarkana, TX-AR Metro Area Tyler	
5.	Southeast	Beaumont-Port Arthur	
6.	Gulf Coast	Houston-The Woodlands-Sugar Land	
7.	Central Texas	College Station-Bryan Killeen-Temple Waco	
8.	Capital Texas	Austin-Round Rock	
9.	Alamo	San Antonio-New Braunfels Victoria	
10.	South Texas	Brownsville-Harlingen Corpus Christi Laredo McAllen-Edinburg-Mission	
11.	West Texas	Midland Odessa San Angelo	
12.	Upper Rio Grande	El Paso	

(Exhibit 1 continued on next page)

(Exhibit 1 continued)

	Nationwide Service Area Designation or Identification Form		
Proposing Firm Name:	RESPEC Company LLC		
Notes:	**Indicate in the appropriate box whether you are proposing to provide service to all Fifty (50) States.**		
	Will service all fifty (50) states	Will not service fifty (50) states	
	☑	☐	
	If you are not proposing to service to all fifty (50) states, then designate on the form below the states that you will provide service to. By designating a state or states, you are certifying that you are willing and able to provide the proposed goods and services in those states. **If you are only proposing to service a specific region, metropolitan statistical area (MSA), or City in a State, then indicate as such in the appropriate column box.**		

Item	**State**	**Region/MSA/City (write "ALL" if proposing to service entire state)**	**Designated as a Service Area**
1.	Alabama		
2.	Alaska		
3.	Arizona		
4.	Arkansas		
5.	California		
6.	Colorado		
7.	Connecticut		
8.	Delaware		
9.	Florida		
10.	Georgia		
11.	Hawaii		
12.	Idaho		
13.	Illinois		
14.	Indiana		
15.	Iowa		
16.	Kansas		
17.	Kentucky		
18.	Louisiana		
19.	Maine		
20.	Maryland		

21.	Massachusetts		
22.	Michigan		
23.	Minnesota		
24.	Mississippi		
25.	Missouri		
26.	Montana		
27.	Nebraska		
28.	Nevada		
29.	New Hampshire		
30.	New Jersey		
31.	New Mexico		
32.	New York		
33.	North Carolina		
34.	North Dakota		
35.	Ohio		
36.	Oregon		
37.	Oklahoma		
38.	Pennsylvania		
39.	Rhode Island		
40.	South Carolina		
41.	South Dakota		
42.	Tennessee		
43.	Texas		
44.	Utah		
45.	Vermont		
46.	Virginia		
47.	Washington		
48.	West Virginia		
49.	Wisconsin		
50.	Wyoming		

End of Exhibit 1

RESPEC.COM