APPENDIX A
Pricing for TXShare

For Early Warning Flood Management Software and Related Services, contractor shall quote participating TXShare Entities the rates and/or discount required for the products and related services specified by the RFP. Contractor's proposed minimum catalog discount for their product categories are found below.

SERVICE	YES	NO
Software and Software Training Services	X	
Hardware and Hardware Maintenance Services		X
Additional Related Services	X	

Table 1. New NovaStar Pricing

Item	Description	Price

NovaStar Initial License Fee	NovaStar Initial Software License to Include:
	• Linux Debian Operating System
	• PostgreSQL Database
	• NovStar5 Core Components:
	  ○ ALERT/ALERT2 data ingest
	  ○ Alarm/notification functions
	  ○ Station/point configuration
	  ○ Point computations ratings/equations
	  ○ Database backup/archival
	  ○ Data displays tabular/plots/maps
	• NovaStar Administrator Interface
	• NovaStar Operator Interface
	• NovaStar Data Explorer
	• NovaStar Web Services (2)
	• Client System Dashboard
	• Zabbix server monitoring
		$15,000/node (1)

(1). A node is defined as a primary, backup, or data instance of NovaStar, whether installed on a stand-alone computer or virtual machine. A backup node will fail-over when the primary node fails. A data node replicates data but does not perform data collection. The license fee does not include configuration and setup which will be negotiated for new systems based on the size and complexity.

(2). Web services can be provided to remotely query the NovaStar database for time series and station/point metadata. Web services are designed to efficiently extract and present data in various formats (csv, xml, etc.) using a standard web URL query format. Web services also provide data to ArcGIS and other third-party components.

The above costs (Table 1) do not include computer servers, either virtual machines or rack/desktop computers. Pricing for new computer hardware and cloud-based virtual servers is provided (Table 2).

Table 2. New Server and Cloud-Hosting Computing Pricing

Item	Description	Typical Price
Physical Computer	NovaStar desktop (or rack mount) base station computer server: • 64-bit architecture • 12 cores • 3.4 GHz – CPU • 32 GB RAM • 4x mirrored 1 TB hard drives (RAID 10) • Network card (10/100/100) • Multiple USB ports	$7,500
Cloud-hosted Virtual Server (1)	TriLynx uses Amazon AWS cloud services for our cloud-hosted solutions: • AWS VM Instance – EC2 – t2.xlarge • 4 cores • 32 GB RAM • 64-bit • EBS storage – 100 GB • Network interface with Elastic IP	$3,500/year

(1). TriLynx can install NovaStar onto a virtual environment hosted by TriLynx on the Amazon Cloud or on any virtual environment hosted by the customer or another platform such as Google or MS Azure.

NovaStar Basic Annual Maintenance, Support and Software Updates Pricing

TriLynx provides software maintenance and support for installed NovaStar systems in accordance with the following rates. Software updates are included in the NovaStar "Basic Annual Maintenance and Support" fee.

TriLynx includes support for the Operator Interface and Data Web Services in the basic annual maintenance and support fee for NovaStar because these products are being used to support core system functionality and integration with other systems. Basic annual maintenance, support and software update pricing is shown (Table 3).

TriLynx recognizes that fiscal budget cycles often drive the schedule for paying annual maintenance and we will work with customers to ensure that NovaStar systems are functioning as annual maintenance payments are being processed. However, it is expected that annual maintenance will be paid in a timely manner, based on annual quotes that are provided each year. Annual maintenance fees allow TriLynx to maintain the NovaStar product at a high functional level, implement new features that benefit all NovaStar users, and to maintain a line of communication with customers.

Table 3. NovStar5 Basic Annual Maintenance, Support and Software Updates

Item	Description	Price
NovaStar Basic Annual Support	NovaStar basic annual software maintenance and support: • updates to the operating system to the current supported version • updates to the NovaStar system software, including core NovaStar software • updates to the PostgreSQL database • software updates throughout the year to address bugs identified in the general NovaStar product • security updates • 10 hours per node of remote support during regular business hours (support requests beyond 10 hours in a year must be paid for using an extended support agreement.) • Updates to the Operator Interface and Web Services.	$11,000/node (1)

(1). A node is defined as a primary, backup, or data instance of NovaStar, whether installed on a stand-alone computer or virtual machine. A backup node will fail-over when the primary node fails. A data node replicates data but does not perform data collection.

Annual updates include the following system enhancements and reflect TriLynx investment in the NovaStar product throughout the year:

- Operating system updates (e.g., to ensure that security features are up to date).
- Third-party software updates (e.g., for the PostgreSQL database).
- Updates to NovaStar system software to be compatible with operating system and third-party software updates.
- Bug fixes in the core NovaStar system identified proactively by TriLynx and reported by clients.
- New features and software components implemented by TriLynx to enhance overall functionality of the system.
- Enhancements to address changes in industry specifications such as the ALERT2 protocol, ALERT2 two-way functions, etc.

Examples of items that are not included in the annual software support are as follows and will require an additional support agreement for custom services:

- Support beyond 10 support hours per node (either telephone or email) per year.
- Transfer of a node/system from the current installed system to a new stand-alone computer or virtual machine.
- Reinstalling the system because of a hardware failure, other than simple backup restore.

- Initial implementation of, enhancement of, or support for custom websites (annual updates will provide support for core system features that serve data to custom websites but only for standard features).
- Integration support, for example to integrate the NovaStar system with third-party hardware or software systems.
- Development of custom features outside of normal maintenance upgrades.

TriLynx rates for custom services are provided (Table 4).

Table 4. TriLynx Rates for Custom Services

Description	Price
Custom programming and software development	$200/hour
On-site visit labor for one TriLynx staff	$1,600/day
Travel per diem	$300/day (1)
Travel airfare and car rental	Market rate

(1). Per diem rate will adhere to approved government IRS food, lodging, and mileage rates for the area.

Options for Extended Support Beyond Basic Annual Maintenance, Support and Software Updates

The following options are recommended for additional hourly maintenance support to ensure continuous system operations:

- provide TriLynx with a purchase order to cover a certain number of support hours, in response to specific issues
- or, pay for a block of support hours up front at the standard rate, in which case:
  - TriLynx will track hours expensed on client-authorized support tasks and will provide cost tracking information to the customer as hourly support is billed against the pre-paid hours – TriLynx will provide a notice when the hourly support balance is getting low.

Options for Special Projects

At the discretion of the customer, specific projects can be treated separately from NovaStar annual maintenance and support. For example, a large integration project can be handled with a separate scope of work and budget. The rates for such work may be the same as support or can include more category rates if the personnel that are involved are different from typical support and maintenance tasks.