**NOTICE OF SOLE SOURCE**

**El Paso County Jail Flush Valve Systems**

**Date Issued: May 27, 2021**

**Deadline: 2:00PM, Thursday, June 10, 2021**

**Number: SSP 21-091**

**Notice of Proposed Sole Source**: El Paso County Facilities & Strategic Infrastructure Management (FSIM) intends to award a sole source contract to I-CON Systems, Inc. for NEXUS® Controllers, TruTOUCH® Sensors, MOMENTUM® flush valves, ELEMENT® Dual Temperature Manifold Lavatory Valves, and necessary installation components that will serve to save water and reduce maintenance of the plumbing system at the El Paso County Jail.

The performance characteristics and features of the system are as follows:

**NEXUS® Controllers** are the central hub of the correctional system, connecting input sensors to valves. The NEXUS® Controllers allow for customizable settings such as run-times, delays and lockout periods and are designed to conserve water, reduce sewage, and discourage misuse and vandalism.

**TruTOUCH® Sensors are a f**ully electronic force activated sensor with LED status indicator and no moving parts. Sensor includes a two-foot lead with watertight connector.

**MOMENTUM® flush valves** are **adaptable to both existing plumbing systems or new applications.**

**ELEMENT® dual temperature manifold lavatory valves** are for use with hot and cold water. Up to four lavatories can be supplied by one unit. Includes new pressure compensating 0.5 GPM flow regulators as standard.

**PRODUCT FEATURES**

* 1. **NEXUS® Controllers - CTR-X12-AC-04 Series & CTR-X12-AC-08 Series**

1. New water-resistant enclosure
2. **Designed for penal use and other vandal prone areas to conserve potable water consumption**
3. 24VAC power with low power consumption
4. Electrical telephone plug type connectors for sensor and solenoid
5. UL listed (E308296) and independently tested
6. Ability to be remotely located up to three hundred (300) feet from the associated fixtures
7. Adjustable program times without dip switches
8. Power switch on the exterior of the housing
9. Amber power LED illuminates with power
10. Green LEDs illuminate at each port to show the port is active
11. Red LEDs indicate block times are in effect
12. Power surge protection and voltage spike protection
13. Nominal current draw: 90 mA
14. Current draw per active port: 180 mA
    1. **TruTOUCH® Sensor - SEN-1601 Series**
15. Specifically designed for penal use
16. Rugged, polished stainless-steel housing with no internal moving parts makes the unit virtually vandal-proof
17. Proven reliability with testing of over 1 million activations
18. Unique design allows activation by finger pressure without compromising its sealing integrity
19. Proprietary 5V DC design allowing for no power consumption until touched by operator
20. Ability to be remotely located up to three hundred (300) feet from the associated controller
21. Telephone type connectors for quick and easy connection to controller
22. Meets all ADA requirements
23. IP 68 protection
24. Operating temperature range from -40° F to 257° F
    1. **MOMENTUM® Flush Valves - VLV-FVL-3801 Series**
25. Third party tested and approved for flushing 1.6 gallons on a 3.5-gallon fixture and 0.9 gallons on a 1.6-gallon fixture
26. Additional savings flushing 0.5-gallons on 1.0-gallon urinal and ability to flush 1 pint on urinal
27. No metering diaphragms to fail and clog
28. Engineered non-metallic valve body made from high strength glass filled polymer for advanced corrosion resistance
29. Ability to flush using manual bypass handle
30. Straight through flow path to maximize flush velocity and provide superior force of flush
31. Solenoid is interchangeable with other I-CON correctional valves reducing spare parts
32. Positive valve shut-off after pressure loss eliminating continual flush of typical flushometers
33. Easily retrofits to existing inlet and outlet water piping hardware
34. Flush activation adjustment to overcome calcium build-up blocking flush jets
    1. **ELEMENT® Dual Temperature Manifold Lavatory Valves - VLV-LAV-4830 Series**
35. New pressure compensating 0.5 GPM flow regulators as standard
36. New check stop retaining clips for added support and reliability
37. Expandable valve solution allowing for one (1) hot and cold-water supply for up to four (4) lavatories
38. No metering diaphragms to fail and clog
39. Engineered non-metallic polymer valve body for advanced corrosion resistance
40. Ability to activate using manual bypass handle
41. All solenoids are interchangeable with other I-CON correctional valves reducing spare parts
42. Positive valve shut-off after pressure loss eliminating continual running
43. Maximum water temperature of 120° F and maximum pressure of 100 PSI
44. 1/2" NPT supply connections and 3/8" OD tubing outlet

**Point of Contact:** The sole point of contact for this Notice of Proposed Sole Source is Mark Means, Procurement Specialist, El Paso County Contracts & Procurement Division, 15 E. Vermijo Ave., Colorado Springs, CO 80903; phone: 719-520-6489; email: [markmeans@elpasoco.com](mailto:markmeans@elpasoco.com). Information obtained from other sources may not be accurate and should not be relied upon.

**Comments:** If any vendor disagrees with this Notice of Proposed Sole Source, and has documented evidence supporting their objection, vendor must notify Mark Means, Procurement Specialist, El Paso County Contracts & Procurement Division, 15 E. Vermijo Ave., Colorado Springs, CO 80903; phone: 719-520-6489; email: [markmeans@elpasoco.com](mailto:markmeans@elpasoco.com) via email prior to the submission deadline. This Notice of Proposed Sole Source is not open for competitive bidding. If comments are received, the County may issue a competitive solicitation at a future date. The County reserves the right to reject any or all comments received for this notice.

**Modifications:** If any modifications to this Notice or any subsequent solicitation are issued, they will be posted at this same site.

**Background:**

The process of installing I-CON systems in the El Paso County Jail started in 2017 to address the issue of inmates flushing sheets down the toilets. The sheets would enter the system and clog the filters at the Colorado Springs Utilities treatment plant. As a result, CSU started charging the County for the cleaning of the filters and removal of the sheets. The above mentioned I-CON systems and all necessary components shall be installed by the El Paso County Facilities & Strategic Infrastructure Management department. To date, roughly three-quarters (3/4) of the County Jail’s existing flush valve system has been replaced with I-CON Systems.

**Outcomes:**

Procure the necessary I-CON systems and components for continuing the replacement of the existing flush valve system at the El Paso County Jail, for the purposes of stopping intentional abuse of the Jail’s plumbing system and achieving cost savings through vandalism prevention and system efficiencies.