Welcome to the JEA Awards Meeting

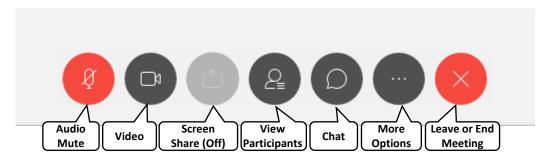
You have been joined to the meeting with your audio muted by default.

We will unmute your lines during the public comment time and provide opportunity for you to speak.

During the meeting, interested persons can also email Halley Stewart at reimhj@jea.com to submit public comments to be read during the meeting regarding any matter on the agenda for consideration. Public comments by e-mail must be received no later than 9:00 a.m. to be read during the public comment portion of the meeting.

Please contact Halley Stewart by telephone at (904) 665-8815 or by email at reimhj@jea.com if you experience any technical difficulties during the meeting.

Below is a summary of the meeting controls you will see at the bottom of your screen.



AWARDS COMMITTEE AGENDA

DATE: Thursday, March 3, 2022

TIME: 10:00 A.M.

PLACE: JEA, Customer Center, Bid Office, 1st Floor, 21 West Church Street, Jacksonville, FL

32202 OR

WebEx/Teleconference

WebEx Meeting Number (access code): 160 199 4252

WebEx Password: pxP6CqUSt63

Public Comments:

Awards:

- 1. Approval of the minutes from the last meeting (02/24/2022).
- 2. 1410563246—Request approval to award a five (5) year contract to Presidio Network Solutions for Cisco SmartNet Maintenance in the amount of \$2,297,150.21, subject to the availability of lawfully appropriated funds.
- 3. Request approval to award a one year contract renewal and increase to Grainger (\$94,000.00), World Electric Supply (\$468,000.00) and Jo Kell, Inc. (\$676,000.00) to provide Maintenance, Repair and Overhaul (MRO) materials for a total amount of \$1,238,000.00, and new not to exceed amount for all three contracts of \$10,819,000.00, subject to availability of lawfully appropriated funds.
- 4. Request approval to award a contract increase to Warren Asphalt Inc. for Restoration of Disturbed Asphalt Paved Areas in the amount \$1,229,593.17, for a new not to exceed amount of \$25,326,363.32, subject to the availability of lawfully appropriated funds.
- 5. 1410512246– Request approval to award a contract to D.B.E. Management, LLC dba DBE Utility Services for construction services for the Construction Services for the SR200 William Burgess Blvd to Police Lodge Rd Trans RW project in the amount of \$5,027,563.06, subject to the availability of lawfully appropriated funds.
- 6. Request approval to award a change order to Hazen and Sawyer for additional engineering for the Lakeshore WTP Reservoir and Wellhead No. 2 Rehabilitation project in the amount of \$91,660.00, for a new not-to-exceed amount of \$650,756.00, subject to the availability of lawfully appropriated funds.
- 7. Request approval to award a contract increase to Perdue, Inc. for furniture procurement, delivery and service for the new JEA headquarters for the third phase for a total amount of \$1,272,654.75, for a new not-to-exceed amount of \$3,280,577.55, subject to the availability of lawfully appropriated funds.
- 8. 1410334650 Request approval to award a contract to The Haskell Company for the Progressive Design-Build Services for the Commonwealth Service Center (CWSC) Renovation Project in the amount of \$527,961.00, subject to the availability of lawfully appropriated funds.
- 9. 1410460646 Request approval to award a contract to A Sanctuary House of North Florida Inc. in the amount of \$113,448.00, Freedom Landscape and Lawn Maintenance Inc. in the amount of \$442,745.70 and J&D Maintenance and Services of North Florida, LLC in the amount of \$1,656,919.34 for Facilities Landscaping Open Market for a total not-to-exceed amount of \$2,213,113.04, subject to the availability of lawfully appropriated funds.

- 10. Request approval to award Phase 2 Progressive Design Build Services to Auld & White Constructors, LLC for the JEA Utility Training Center (JUTC) Renovation Project in the amount of \$5,290,700.00, for a new not-to-exceed amount of \$5,455,000.00, subject to the availability of lawfully appropriated funds.
- 11. Request approval to award an amended contract increase to Vesta modular for Leased Modular Buildings for Technical Training at NGS in the amount of \$79,950.00, for a new not-to-exceed amount of \$470,620.66, subject to the availability of lawfully appropriated funds.
- 12. 1410510446-21– Request approval to award contracts to Gresco Supply Inc. for Item CAIRH012 carried in JEA's inventory stock for a total amount of \$454,500.00 subject to the availability of lawfully appropriated funds.
- 13. 1410526846 Request approval to award a contract to PTI Transformers LP for the supply of the West Jax. T-1 transformer in the amount of \$3,310,828.00, subject to the availability of lawfully approved funds.
- 14. Request approval to award an amendment for increase to the contract with Orlando Freightliner in the amount of \$320,548.00 for the purchase vehicles for JEA's FY22 and FY23 heavy duty fleet capital requirements, for a total not-to-exceed amount of \$2,592,575.17, subject to the availability of lawfully appropriated funds.

Informational Items: N/A

Open Discussion: N/A

Public Notice: N/A

General Business: N/A

SPECIAL NOTES: Copies of the above items are available in JEA Procurement, if needed for review. If a person decides to appeal any decision made by the Awards Committee, with respect to any matter considered at this meeting, that person will need a record of the proceedings, and, for such purpose, needs to ensure that a verbatim record of the proceedings is made, which record includes the evidence and testimony upon which the appeal is to be based. If you have a disability that requires reasonable accommodations to participate in the above meeting, please call 665-8625 by 8:30 a.m. the day before the meeting and we will provide reasonable assistance for you.

Award #	Type of Award	Business Unit	Estimated/ Budgeted Amount	<u>Amount</u>	<u>Awardee</u>	<u>Term</u>	<u>Summary</u>	
1	Minutes	N/A	N/A	N/A	N/A	N/A	Approval of minutes from the 02/24/2022 meeting.	
2	Invitation for Bid (IFB) 3 Bidders	Krol	\$2,600,000.00	\$2,297,150.21	Presidio Networked Solutions LLC	Five (5) Years w/ One (1) Yr. Renewal	Cisco Smartnet Support and Maintenance of JEA's Infrastructure To purchase SmartNet Support and Maintenance of JEA's Cisco Infrastructure with a Cisco Gold Partner Member(s) for five (5) years starting on 04/01/2022 to 03/31/2027. Cisco SmartNet supports software and hardware for all of JEA's Cisco branded network and server devices. This award is for \$2,297,150.21 and five (5) years from 04/01/2022 to 03/31/2027 for SmartNet support and maintenance on JEA Cisco network infrastructure equipment. The annual payment will be approximately \$459,430.04. The services included under this procurement are covered hardware repair/replacement, Cisco SMART license and subscription renewals, required software upgrades which include critical information security patches and escalated troubleshooting support as needed. JEA has approximately 900 items of CISCO equipment that will require a maintenance agreement to ensure operational readiness and maintain its budgetary controls. JEA Procurement did a comparison of like for like items. When compared to the prior contract, Presidio maintained or exceeded its current 20% discount from Cisco's published list price. The majority of items contained in this award were discounted between 22% and 27% from Cisco's published list price. JEA completed a budget transfer from 30901 to 30903 to fund the first year of this award request. 1410563246— Request approval to award a five (5) year contract to Presidio Network Solutions for Cisco SmartNet Maintenance in the amount of \$2,297,150.21, subject to the availability of lawfully appropriated funds.	
3	Contract Renewal	Vu	N/A	\$94,000.00 \$468,000.00 \$676,000.00	Grainger World Electric Supply Jo-Kell, Inc.	Three (3) Years w/Two (2) - 1 Yr. Renewals	Maintenance, Repair and Overhaul (MRO) Material Blankets Previously awarded informal blanket purchase agreements to support processing orders on blankets in lieu of P-cards. Use of blanket purchase agreement will allow spend consolidation and facilitate ordering. Vendors commit to provide JEA a minimum of ten percent (10%) discount on materials purchased either off P-Card or blankets for their JEA account. Jo Kell, Inc., Grainger and World Electric Supply are the three (3) largest MRO P-Card spends at JEA. Award amount contract increases were estimated by using current spend rates and forecasting over the remaining term of the contract (estimate	

							calculations are attached as backup). Note, these MRO qualification agreements are non-requirements contracts that cover the whole organization. The approval to spend the funds takes place on the requisition from the already-approved fiscal year budget or capital project. This award will exercise the last renewal option for all three vendors. Request approval to award a one year contract renewal and increase to Grainger (\$94,000.00), World Electric Supply (\$468,000.00) and Jo Kell, Inc. (\$676,000.00) to provide Maintenance, Repair and Overhaul (MRO) materials for a total amount of \$1,238,000.00, and new not to exceed amount for all three contracts of \$10,819,000.00, subject to availability of lawfully appropriated funds.
4	Contract Increase	Vu	\$1,229,593.17	\$1,229,593.17	Warrens Asphalt, Inc.	Five (5) Years w/ One (1) - One (1) Year Renewal	Restoration of Disturbed Asphalt Paved Areas Originally bid and approved by the Awards Committee on 06/09/2016 in the amount of \$11,868,359.46 to Warren Asphalt Inc. A copy of the previous award is attached as backup. This contract increase request is to add \$1,229,593.17 to finish out the remaining four (4) months on the contract. This contract increase amount includes expected annual increases due to Consumer Price Index (CPI) adjustments that can be exercised annually on the contract. Due to increases in the number of cave-ins and manhole failures JEA has had over the past three (3) years, this contract has been used more extensively than originally anticipated. A new solicitation for asphalt paved site restoration has been comprised and the bid is in evaluation. This process, because it is an evaluated bid, will not be completed by the time existing contract funding expires, so this contract increase is expected to cover funding for the existing contract term. Request approval to award a contract increase to Warren Asphalt Inc. for Restoration of Disturbed Asphalt Paved Areas in the amount \$1,229,593.17, for a new not to exceed amount of \$25,326,363.32, subject to the availability of lawfully appropriated funds.
5	Invitation for Bid (IFB 5 Bidders	Vu	\$6,520,317.00	\$5,027,563.06	D.B.E. Management, LLC dba DBE Utility Services	Project Completion (Expected: June 2023)	Construction Services for the SR200 – William Burgess Blvd to Police Lodge Rd - Trans – RW Project The scope of work for this solicitation includes construction services to install 11,832 LF of 16-inch PVC DR18 reclaimed water main by open cut method, 644 LF of 20-inch HDPE DR-11 under Main Waterway - Plummer Creek, 746 LF of 20-inch HDPE DR-11 under Minor Branch - Plummer Creek, 1,413 LF of 20-inch HDPE DR-11, 145 LF of 24-inch Jack-and-Bore under Three Rivers Drive, and 145 LF of 24-inch Jack-and-Bore under Edwards Rd in Nassau County. The new main will provide reclaimed water for irrigation service in the area. The award amount of \$5,027,563.06 is approximately 22.9% lower than the budget estimate due to the contractor self-performing the trenchless

							crossings, and the overestimating unsuitable soil replacement costs. The costs have been reviewed by the JEA project staff and deemed reasonable compared to past bids. Request approval to award a contract to D.B.E. Management, LLC dba DBE Utility Services for construction services for the Construction Services for the SR200 – William Burgess Blvd to Police Lodge Rd - Trans – RW project in the amount of \$5,027,563.06, subject to the availability of lawfully appropriated funds.
6	Change Order	Vu	\$100,000.00	\$91,660.00	Hazen and Sawyer	Project Completion (Expected: February 2024)	Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation Originally approved by Awards Committee on 10/05/2017 in the amount of \$559,096.00 to Hazen and Sawyer. A copy of the original award is attached as backup. This award request is for a change order to the design contract of Hazen and Sawyer for the Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation project. During the initial design services for this project in 2018 an inspection was performed on the water reservoirs and the reservoirs were in better condition than expected. Hazen and Sawyer finished the design documents, and JEA delayed the construction portion until the FY22 and FY23 budget years. This award request is to bring the 100% design documents up to the current JEA 2022 standards. A copy of the quote from Hazen and Sawyer is attached for reference. The hourly rates for have been increased via the consumer-price-index (CPI) to determine the hourly rates for this amendment. JEA paid Hazen and Sawyer \$414,172.00 out of the original award amount for the completion of the 100% design documents. The quote for this change order includes the cost for updating the prior design to current standards, and updating the fees for the previously approved services during construction (SDC) with the current hourly rates. The difference needed from the original award amount for this change order is \$91,660.00. Request approval to award a change order to Hazen and Sawyer for additional engineering for the Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation project in the amount of \$91,660.00, for a new not-to- exceed amount of \$650,756.00, subject to the availability of lawfully appropriated funds.
7	Contract Increase	McElroy	\$5,000,000.00	\$1,272,654.75	Perdue, Inc.	Project Completion (Expected: September 30, 2022)	Furniture Procurement, Delivery and Service for New Headquarters The purpose of this Request for Proposal (RFP) is to evaluate and select a firm ("Firm" or "Company" or "Proposer") from the prior Request for Qualifications, 101180 Furniture Procurement, Delivery and Service for New JEA Headquarters Qualified Category List in order for JEA to select the best value for providing furniture initially including workstations and standard office furniture. "Best Value" means the highest overall value to

							JEA with regards to pricing, quality, warranty and service, ability to meet project timeline and other selection criteria. This contract increase is for the purchase of phase three, which includes the majority of the ancillary furniture. The ancillary items include furniture for board/multi-purpose room, much of customer center area, additional workstations for pre-service, security offices and special purpose office spaces, agile training rooms, customer care training rooms, innovation lab,
							tech depot, work cafés (breakrooms), respite/quiet rooms, executive office suite areas, collaboration spaces including open collaboration, team and huddle rooms, small waiting and gathering areas and phone rooms. Furniture remaining to be ordered includes a portion of the lobby furniture, outdoor furniture, lockers, standard file cabinets, limited office and reception furniture, and other miscellaneous items. The additional ancillary furniture will be grouped in upcoming phases.
							Request approval to award a contract increase to Perdue, Inc. for furniture procurement, delivery and service for the new JEA headquarters for the third phase for a total amount of \$1,272,654.75, for a new not-to-exceed amount of \$3,280,577.55, subject to the availability of lawfully appropriated funds.
8	Request for Proposal (RFP) 4 Proposers	McElroy	\$6,201,400.00	\$527,961.00	The Haskell Company	Project Completion: (Phase I Design Expected: October 2023)	Progressive Design-Build Services for the Commonwealth Service Center (CWSC) Renovation Project The purpose of this Request for Proposals (RFP) is to evaluate and select a vendor that can provide Progressive Design Build services for the Commonwealth Service Center (CWSC) renovation project (collectively, the "Work" or "Services"). The scope of work for this project includes architectural, engineering, and contractor services which will be competitively sourced as a single team through this solicitation process. The selected team will create a 10% drawing (floor plan), to be approved by all stakeholders. The 30%, 60%, 90% and 100% design documents will then be created, with stakeholder review at each phase. The required construction documents will be forwarded to Capital Planning for information and review. Negotiations with The Haskell Company were successfully completed for Phase 1 of this project. This project will be delivered using the progressive design-build method, splitting the effort into two (2) phases. Phase 1 includes engineering design up to sixty percent (60%), support services and pre-construction services, which is approximately nine percent (9%) of the estimated project cost. The Phase 1 negotiated fees proposed were compared with similar facilities design projects and have been deemed reasonable. After Phase 1, a Guaranteed Maximum Price (GMP) will be established, with an option of an "off ramp" if construction pricing is not acceptable. Upon acceptance of the GMP and subsequent approval of the Awards Committee, Phase 2 will commence. Phase 2 will include the final design, services during construction (SDC) and construction costs.

9	Request for Proposal (RFP) 4 Proposers	McElroy	\$1,844,855.00	\$113,448.00 \$442,745.70 \$1,656,919.34	A Sanctuary House of North Florida, Inc. Freedom Landscape and Lawn Maintenance, Inc. J&D Maintenance and Services of North Florida, LLC	One (1) Year w/Two (2) – One (1) Yr. Renewals	1410334650 – Request approval to award a contract to The Haskell Company for the Progressive Design-Build Services for the Commonwealth Service Center (CWSC) Renovation Project in the amount of \$527,961.00, subject to the availability of lawfully appropriated funds. Facilities Landscaping – Open Market The purpose of this Request for Proposal (RFP) is to evaluate and select a vendor or multiple vendors that can provide economical pricing for basic landscape maintenance and chemical spraying. These services must be performed in a safe manner, and the results must be aesthetically pleasing as these facilities represent JEA to the rate-paying public. Landscaping will be performed at approximately 918 JEA facilities located in Duval, Nassau, St. Johns and Clay Counties in Florida, including St. Johns River Power Park (SJRPP) and Pelotes Island. These locations include exteriors of buildings, lots, lift stations, electric substations, wells, water treatment plants, wastewater treatment plants, communication towers, road access, fences, areas around electric power lines, highways, the exterior of generating plants, and trails. Contracts are to be awarded as follows: Contract number 1 (District 2), Contract number 2 (District 3a, 3b and 3c) and Contract number 3 (District 6ESS, District 7, SJRPP and Kennedy Generating Station (KGS)). The award amount of \$2,213,113.04 is approximately eighteen percent (18%) higher than the budgeted estimate. When compared to the previous contract there was a thirty-six percent 36% normalized increase in rates (\$528,467.04) and the addition of 63 sites requiring services (\$206,392.00) driving the overall contract increase of \$734,859.04. Additional funding for FY22 is being utilized from an approved one-time project. 1410460646 – Request approval to award a contract to A Sanctuary House of North Florida Inc. in the amount of \$11,656,919.34 for Facilities Landscaping – Open Market for a total not-to-exceed amount of \$2,213,113.04, subject to the availability of lawfully appropriated
10	Contract Increase	McElroy	\$6,857,939.00	\$5,290,700.00	Auld & White Constructors LLC	Project Completion (Expected: 02/2023)	Progressive Design-Build Services for the JEA Utility Training Center Renovation Project JEA is requesting Responses from qualified Design-Build (DB) firms to provide design and construction services for the renovation of the JEA Utility Training Center (JUTC) facility (the "Work"). The scope of work includes, but is not necessarily limited to, those items listed below which are considered basic to the Solicitation response: Complete reformatting and upgrading of all occupied spaces, including offices, classroom, open areas, break room and restrooms; includes finishes, furniture, and fixtures. Restrooms need to be expanded and upgraded to meet current ADA requirements for access.

							Construction of new support and storage spaces, including server room, copy room, and closets/lockable storage. Upgrade of all operating systems (HVAC, plumbing, electrical) and related fixtures (toilets, sinks, light fixtures, etc.) HVAC work includes controls; plumbing includes supply and drain/waste/vent lines. Upgrade of warehouse doors and storefront systems to Miami-Dade standards. Upgrade of locksets, keying systems, and card access to building entrances, exits, and gates. Upgrade with new guard shack built to JEA generating station requirements which includes multiple access-controlled gates, gate arms, lanes of entrance and exit, and network fiber optic. Negotiations with Auld & White Constructors were successfully completed for Phase 2 of this project. The Guaranteed Maximum Price (GMP) in the amount of \$5,290,700.00 has been deemed reasonable based on the scope of work and previous projects. This is a Progressive Design-Build contract which splits the effort into two (2) phases. Phase 1 included engineering design up to sixty percent (60%), support services and pre-construction services. Phase 2 includes the final design, services during construction and construction costs. The Phase 2 Proposal has been attached as backup. Request approval to award Phase 2 Progressive Design Build Services to Auld & White Constructors, LLC for the JEA Utility Training Center (JUTC) Renovation Project in the amount of \$5,290,700.00, for a new not-to-exceed amount of \$5,455,000.00, subject to the availability of lawfully
11	Contract Increase (Amended)	McElroy	\$79,950.00	\$79,950.00	Vesta Housing Solutions LLC dba Vesta Modular	Five (5) Years	Agreement (HGAC). JEA originally anticipated needing these units for approximately thirty six (36) months at \$3,640.00 per month, and intended to purchase a site and build also need two storage containers and ramps for the buildings which increased the monthly amount to \$6,150.00. Due to the construction of JUTC not being complete, a contract extension was awarded on 12/03/2020 in the amount of \$92,250.00 to cover the needs through completion. The JUTC construction project was delayed due to various design plan changes and discussions about value add alternatives, which is now at 60% design. JEA is requesting to extend this contract with Vesta Modular for an additional thirteen (13) months at the same rate of \$6,150.00 per month in the amount of \$79,950.00 to get us through completion of the project and

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							allow for a transition period for move-in. The previous award and
							agreement are attached as backup.
							Request approval to award an amended contract increase to Vesta modular for Leased Modular Buildings for Technical Training at NGS in the amount of \$79,950.00, for a new not-to-exceed amount of \$470,620.66, subject to the availability of lawfully appropriated funds.
							CAIRH012 Cable for Inventory Stock
12	Invitation for Bid (IFB) 2 Bidders	McElroy	\$383,000.00	\$454,500.00	Gresco Supply Inc.	One-time purchase	The purpose of this Invitation for Bid (IFB) is to solicit pricing for Item CAIRH012 (CABLE, 500KCM, 37 STRAND, 3-1/C PARALLELED). During the last 12 months, the commodity spend for this item was \$164,529.60. At the time of the bid release, the inventory balance for the item found in this solicitation was \$2,989.80 with the average current lead time of 56 days. The evaluation criteria for this bid was that the total lowest cost provider for the item would win, as long as the minimum qualifications were met, and they quoted the correct JEA approved manufacturer and manufacturer part number. CAIRH012 is a product consisting of three separate cables ran together for three (3) phase applications primarily in downtown Jacksonville underground. CAIRH012 was developed and approved by JEA Standards in early 2020 as alternative and eventual replacement to the CAIRH008; the newly created CAIRH012 incorporates different colored jackets per phase (black, red and blue) as opposed to the all-black jackets in CAIRH008. The color-coded jackets offer a primary advantage to the all-black jackets of CAIRH008 in its ability to quickly identify the phases which has caused issues in the past for JEA. One instance of when this is particularly useful in situations where there is not enough visible cable to see the printed phasing; when utilizing the CAIRH008 it was required to identify the proper phasing via the printing on the jacket which is increasingly difficult with limited amounts of cable, this is eliminated when only needing to identify the color for proper phase identification. Secondly, the colored jackets help in general installations and maintenance as one can easily identify the phases via color to provide a quick way to check the safety of the connection by phase. The past slow usage was largely based on repairs and maintenance of those cables as needed, because service growth in the network has been largely stagnant for some time. These days, with development and expansion on the rise downtown, JEA is seeing an increa

							business, and after validation from last storm, both CAIRH008 and CAIRH012 are identified as items to have additional inventory as part of the underground cable storm stock item requirements in 2022. JEA will realize an estimated cost increase via unit price increase totaling \$228,000.00 for this contract, or 101% from last ime item was bought in 2020. This increase in cost is primarily attributed to the cost increases of copper, labor, and transportation that have impacted all wire and cable over this time. 1410510446-21— Request approval to award contracts to Gresco Supply Inc. for Item CAIRH012 carried in JEA's inventory stock for a total amount of \$454,500.00 subject to the availability of lawfully appropriated funds.
13	Request for Proposal (RFP) 3 Proposers	Erixton	\$3,000,000.00	\$3,310,828.00	PTI Transformers LP	One-Time Purchase	West Jax Substation T-1 Transformer JEA is soliciting Bids for the equipment design, fabrication, and delivery of one (1) one 230kV to 69 kV transformer for the West Jax Substation (the "Work" or "Services"). Basic Transformer Specifications: 180/240/300 MVA, ONAN/ONAF/ONAF @ 65°C Rise. The autotransformer shall be capable of transforming the minimum MVA rating continuously, self-cooled at rated voltage and frequency without exceeding an average winding temperature rise of 65 degrees C. Voltage: 230kV GRDY / 69kV GRDY, 13.8 KV Tertiary Buried Delta The transformer description is oil immersed, three phase, outdoor type, step-down autotransformer with self-contained voltage regulating equipment on the low voltage side, automatic thermostatically controlled forced-air cooling equipment and other accessories, spare parts and appurtenances hereinafter specified. Delivery shall be F.O.B autotransformer pad. Manufacturer is responsible for offloading. It should be noted that SPX discovered a price error in their proposal post opening and JEA was not willing to accept an updated bid amount since the pricing was released to all Bidders through an intent to award. JEA believed this would create an unfair advantage, so we allowed SPX to withdrawal their proposal per the terms in the solicitation. Additionally, SPX's proposal had price adjustment through delivery as a base negotiation position, which JEA found less responsive. PTI has agreed to a fixed price through delivery which has a 60 week lead time vs. SPX's 104 week lead time.

14 A	Contract Amendment	McElroy	\$2,054,000.00	\$0.00 \$0.00 \$320,548.00	Cumberland International Trucks of Florida, LLC Kenworth of Jacksonville Orlando Freightliner	Project Completion	The purpose of this contract amendment is to modify the original Award amounts from the February 3, 2022 Award Committee. The purpose of the original Invitation to Negotiate (the "ITN") was to solicit pricing for the purchase of eleven (11) heavy duty vehicles for JEA's FY22 and FY23 requirements. This purchase is for planned and budgeted replacement of JEA's Fleet Water (Water Replacement – 1 units) and Electric (Electric Replacement – 8 units) assets along with expansion units for JEA's Fleet Water (Water Expansion - 2 Units) associated with the Fleet Capital Procurement Plan. JEA is requesting this contract amendment based on an emergent need to fulfill JEA Water Department FY23 Expansion needs. JEA Water Department is adding additional crews at the Pearl Street Service Center and these, along with other items not included in this award, are essential equipment used to complete daily tasks. This would double the amount of Group Four (4) assets, 5 Ton - 19 Cubic Yard Dump Trucks, with the new amount being purchased at a total quantity of four (4) units. The basis of award for the original solicitation is to the contract to the highest ranked Respondent for each heavy duty vehicle groupings included in this solicitation, and companies were encouraged to bid multiple groupings for efficiency purposes. After the Best and Final Offers (BAFO) were submitted, Orlando Freightliner, was deemed the lowest cost responsible and responsive Respondents for the heavy duty vehicle groupings that is being requested to increase as part of this award. Request approval to award an amendment for increase to the contract with Orlando Freightliner in the amount of \$320,548.00 for the purchase vehicles for JEA's FY22 and FY23 heavy duty fleet capital requirements, for a total not-to-exceed amount of \$2,592,575.17, subject to the availability of lawfully appropriated funds.
Award				\$23,354,221.23			

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JEA AWARDS COMMITTEE FEBRUARY 24, 2022 MEETING MINUTES

The JEA procurement Awards Committee met on February 24, 2022, in person with a WebEx option.

WebEx Meeting Number (access code): 160 199 4252

WebEx Password: pxP6CqUSt63

Members in attendance were Jenny McCollum as Chief Procurement Officer, Stephen Datz as Chairperson (on site), Hai Vu as Vice Chairperson (on site), Steven Elmore as Budget Representative, Regina Ross as Office of General Counsel Representative; with Ricky Erixton, Joe Orfano, and Laura Dutton (on site). Unless otherwise indicated, all attendees were via WebEx.

Chair Datz called the meeting to order at 09:59 a.m., introduced the Awards Committee Members, and confirmed that there was an in-person quorum of the Committee membership present.

Public Comments:

Chair Datz recognized the public comment speaking period and opened the meeting floor to public comments. No public comments were provided by email, phone or videoconference.

Awards:

1. Approval of the minutes from the last meeting (02/17/2022). Chair Datz verbally presented the Committee Members the proposed February 17, 2022 minutes as presented.

MOTION: Laura Dutton made a motion to approve the February 17, 2022 minutes (Award Item 1). The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

The Committee Members reviewed and discussed the following Awards Items 2 -7:

2. 1410578846 - Request approval to award a contract to Presidio Networked Solutions for Cisco network equipment for new JEA Headquarters in the amount of \$1,352,199.97, subject to the availability of lawfully appropriated funds.

MOTION: Joe Orfano made a motion to approve Award Item 2 as presented in the committee packet. The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

3. 1410503646 - Request approval to award a contract to Software House International Inc. for Microsoft Enterprise Agreement (licensing and maintenance) in the amount of \$6,855,088.38, subject to the availability of lawfully appropriated funds.

MOTION: Laura Dutton made a motion to approve Award Item 3 as presented in the committee packet. The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

4. Request approval to award a contract increase to Hazen and Sawyer for additional engineering and consulting for the Innovative Wastewater Collection and Treatment Program in the amount of \$5,593,024.00, for a new not-to exceed amount of \$7,179,435.00, subject to the availability of lawfully

appropriated funds.

MOTION: Laura Dutton made a motion to approve Award Item 4 as presented in the committee packet. The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

5. Request approval to award a contract increase to Stantec Consulting Services Inc. in the amount of \$696,462.00 for supplemental design for transmission and substation engineering services, for a total new not-to-exceed amount of \$4,368,962.00, subject to the availability of lawfully appropriated funds.

MOTION: Joe Orfano made a motion to approve Award Item 5 as presented in the committee packet. The motion was seconded by Hai Vu and approved unanimously by the Awards Committee (5-0).

6. Request approval to award payment to Florida Department of Transportation for the FDOT Joint Project 447149-1-56-01 SR 202 (J Turner Blvd) at Kernan Blvd. Utilities Replacement project in the amount of \$336,307.65, subject to the availability of lawfully appropriated funds.

MOTION: Hai Vu made a motion to approve Award Item 6 as presented in the committee packet. The motion was seconded by Joe Orfano and approved unanimously by the Awards Committee (5-0).

7. Request approval to award payment to Florida Department of Transportation for the FDOT Timuquana Rd. Resurfacing from Wesconnett Blvd to US 17 project in the amount of \$1,524,977.33, subject to the availability of lawfully appropriated funds.

MOTION: Hai Vu made a motion to approve Award Item 7 as presented in the committee packet. The motion was seconded by Ricky Erixton and approved unanimously by the Awards Committee (5-0).

Informational Item:

No informational items were presented to the Awards Committee.

Ratifications:

No ratifications were presented to the Awards Committee

Public Comments:

No additional public comment speaking period was taken.

Adjournment:

Chair Datz adjourned the meeting at 10:33 a.m.

NOTE: These minutes provide a brief summary only of the Awards Committee meeting. For additional detail regarding the content of these minutes or discussions during the meeting, please review the meeting recording. The recording of this meeting as well as other relevant documents can be found at the link below: https://www.jea.com/About/Procurement/Awards Meeting Agendas and Minutes/



Formal Bid and Award System

Award #2 March 3, 2022

Type of Award

INVITATION FOR BID (IFB)

Request:

250

Request #:

230

Requestor Name:

Williams, Clint J. - Manager Technical Services

Requestor Phone:

(904) 665-6028

Project Title:

Cisco SmartNet Support and Maintenance of JEA's Infrastructure

Project Number: Project Location:

30903

Funds:

JEA

O&M

Budget Estimate:

\$2,600,000.00 (\$520,000.00 per year BL30903)

Scope of Work:

The purpose of this solicitation is to purchase SmartNet Support and Maintenance of JEA's Cisco Infrastructure with a Cisco Gold Partner Member(s) for five (5) years starting on 04/01/2022 to 03/31/2027. Cisco SmartNet supports software and hardware for all of JEA's Cisco branded network and server devices.

JEA IFB/RFP/State/City/GSA#:

#1410563246

Purchasing Agent:

Dambrose, Nick

Is this a ratification?:

NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
	Ray Watkins	rwatkins@presidio.com	8647 Baypine Road,Suite 100, Building 1, Jacksonville, FL 32256	1.904.236.5503	\$2,297,150.21

Amount for entire term of Contract/PO: \$2,297,150.21 **Award Amount for remainder of this FY:** \$459,430.04

Length of Contract/PO Term: Five (5) Years w/ One (1) - 1 Yr. Renewal

Begin Date (mm/dd/yyyy): 04/01/2022 **End Date (mm/dd/yyyy):** 03/31/2027

Renewal Options: One (1) - 1 Yr. Renewal

JSEB Requirement: N/A – Optional

Respondents:

Respondent	Amount	Rank
Presidio Networked Solutions	\$2,297,150.21	1
Netsync Network Solutions	\$2,408,435.00	2
SHI International	\$2,636,908.33	3

Background/Recommendations:

Advertised on 01/20/2022. JEA did not host a pre-bid meeting for this Solicitation. At Bid opening on 02/17/2022, JEA received three (3) bids. After review, JEA evaluated the companies on price only and Cicso Gold Partner status. Presidio Networked Solutions is deemed to be the lowest responsive and responsible Respondent. Cisco Network Equipment and associated support is a JEA standard. A copy of the Response Workbook is attached as backup.

This award is for \$2,297,150.21 and five (5) years from 04/01/2022 to 03/31/2027 for SmartNet support and maintenance on JEA Cisco network infrastructure equipment. The annual payment will be approximately \$459,430.04. The services included under this procurement are covered hardware repair/replacement, Cisco SMART license and subscription renewals, required software upgrades which include critical information security patches and escalated troubleshooting support as needed. JEA has approximately 900 items of CISCO equipment that will require a maintenance agreement to ensure operational readiness and maintain its budgetary controls.

JEA Procurement did a comparison of like for like items. When compared to the prior contract, Presidio maintained or exceeded its current 20% discount from Cisco's published list price. The majority of items contained in this award were discounted between 22% and 27% from Cisco's published list price. JEA completed a budget transfer from 30901 to 30903 to fund the first year of this award request.

1410563246—Request approval to award a five (5) year contract to Presidio Network Solutions for Cisco SmartNet Maintenance in the amount of \$2,297,150.21, subject to the availability of lawfully appropriated funds.

Manager:	Williams, Clint J Manager Technical Services
Director:	Traylor, Kymberly A Dir Network & Telecommunication Services
VP:	Datz, Stephen H VP Technical Services
Chief:	Krol, Bradley D Chief Information Officer
APPROVALS:	
Chairman, Awards Committee	Date
Budget Representative	 Date

APPENDIX B- RESPONSE WORKBOOK TAB 1 NETWORK-TELEPHONY (ENTER DATA IN YELLOW CELLS ONLY) CISCO APPENDIX B- RESPONSE WORKBOOK TAB 1 NETWORK-TELEPHONY (ENTER DATA IN YELLOW CELLS ONLY)

SERIAL NUMBER	PRODUCT LINE	PRODUCT NUMBER	PRODUCT DESCRIPTION	ANNUAL LIST PRICE	DISCOUNT FROM ANNUAL LIST PRICE	FINAL NET PRICE (3 Years 10/1/2016- 9/30/2019)
72808858	Network	CISCO7206VXR	Cisco 7206VXR, 6-slot chassis, 1 AC Supply w/IP Software	\$4,754.00	20%	\$11,409.60
SMG0916N31K	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SAD0808019C	Network	WS-SVC-FWM-1-K9=	*Firewall blade for 6500 and 7600, VFW License Separate	\$18,744.00	20%	\$29,990.40
SMC0923001Q	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SAD0918067U	Network	WS-SVC-FWM-1-K9=	*Firewall blade for 6500 and 7600, VFW License Separate	\$18,744.00	20%	\$29,990.40
SMG1019NJJA	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6.825.00	20%	\$10,920.00
SMG1019NJMF	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SMG1025NMVM	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SAD112505GL	Network	ACE10-6500-K9=	Application Control Engine Service Module	\$6,324.00	20%	\$2,616.23
SMG1034NV89	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6.825.00	20%	\$10,920.00
SMG1035NWAC	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SMG1034NV8L	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SMG1035NW5A	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RO,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SMG1035NW5G	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RO, no PS, no Fan	\$6,825.00	20%	\$10,920.00
SMG1034NVKE	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis, 14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
FOC1211T0A3	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
		WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1211T0AD	Network	WS-CBS3020-HPQ		\$179.00		\$286.40
FOC1212T025	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	T. St. 17 (2. 17
FOC1212T029	Network		^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1209T01M	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P		20%	\$286.40
FOC1208T1RX	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOX1226HJNG	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1226HJMS	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1226HJMK	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1226HJML	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1226HJMW	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOC1229W0CS	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1229W07X	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1229W07F	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1229W08Q	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1228T0WC	Network	WS-CB\$3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T0VM	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T0UT	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T0NZ	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T0S7	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1224W23C	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1224W017	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1224W22L	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1224W23A	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1224W242	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1224W22D	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOX1229G3XD	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1229G3XF	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1229G8QS	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1229G8R8	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1229G8RK	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00

EOS 2/28/2017

FOX1229G8RM FOX1228HACC	Network Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104,00
FOX1229G3XJ	121 6655	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOX1229G3XZ	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOC1228T0UG	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286,40
FOC1228T0UY	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228TOUK	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T0PJ	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T1C3	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	V
FOC1228T1GR	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1231Y1QH	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00		\$286.40
FOC1231Y1S4	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.60
FOC1228T1BS	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$1,641.60
FOC1228T1EM	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P		20%	\$286.40
FOC1228T0ZA	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T1L9	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T1FK	Network	WS-CBS3020-HPO	ACisso Catalyst Blade Switch 2020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1228T1MA	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1413Z1ZD	Network		^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.40
FOC1419Z1XH	Network	WS-C2960-48PST-L	^Catalyst 2960 48 10/100 PoE + 2 1000BT +2 SFP LAN Bas	\$325.00	20%	\$520.00
FOC1533Z199		WS-C2960-48PST-L	^Catalyst 2960 48 10/100 PoE + 2 1000BT +2 SFP LAN Bas	\$325.00	20%	\$520.00
	Network	WS-C3750G-48PS-S	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPB Image	\$1,026.00	20%	\$1,641.60
FGL163640UJ	Network	ASA5545-IPS-K9	ASA 5545-X with IPS, SW, 8GE Data, 1GE Mgmt, AC, 3DE	\$5,255.00	20%	\$8,408.00
FGL163640HD	Network	ASA-IC-6GE-CU-C	ASA 5545-X/5555-X Interface Card 6-port 10/100/1000, RJ-	\$600.00	20%	\$960.00
SAL1617B58C	Network	WS-SVC-WISM2-3-K9=	Wireless Services Module: WiSM-2: w/ 300 AP Support Lice	\$7,149.00	20%	\$11,438,40
SAL1617B58K	Network	WS-SVC-WISM2-3-K9=	Wireless Services Module: WiSM-2; w/ 300 AP Support Lice	\$7,149.00	20%	\$11,438,40
FOC1646Y064	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	
FOC1649Y197	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00		\$171.20
FOC1649Y175	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
FOC1649Y165	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
JAF1732BKTR	Network	N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power	\$10,576.00	20%	\$171.20
JAF1732BLBE	Network	N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20%	\$16,921.60
JAF1732AKAM	Network	N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis, 1xSUP2E, 5xFAB2), No Power	\$10,576.00	20%	\$16,921.60
JAF1732BKTQ	Network	N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis, 1xSUP2E, 5xFAB2), No Power	\$10,576.00	20%	\$16,921.60
FOC1745Z32H	Network	WS-C3560C-12PC-S	Cotclust 3560C Cuit- 42 55 D-5 C D-5 ALL III	\$10,576.00	20%	\$16,921.60
FOC1809Y629	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
FOC1809Y637	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
FOC1809Y618	Network		Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
FOC1812R105		WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.20
	Network	N6K-C6001-64T	Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p	\$1,680.00	20%	\$2,688.00
FOC1808R2BR	Network	N6K-C6001-64T	Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p	\$1,680.00	20%	\$2,688.00
SSI1808072N	Network	N5K-C5548UP-FA	Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	\$1,528,00	20%	\$2,444.80
SSI180804VQ	Network	N5K-C5548UP-FA	Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	\$1,528.00	20%	\$2,444.80
FOC1808R2BS	Network	N6K-C6001-64T	Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p	\$1,680.00	20%	\$2,688.00
FOC1808R2CD	Network	N6K-C6001-64T	Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p	\$1,680.00	20%	\$2,688.00
FOC1818R035	Network	N6004-B-24Q	Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS	\$3,812.00	20%	100000000000000000000000000000000000000
FOC1816R33H	Network	N6004-B-24Q	Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS.	\$3,812,00	20%	\$6,099.20
FOC1818R030	Network	N6004-B-24Q	Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,	\$3,812.00		\$6,099.20
FOC1818R02H	Network	N6004-B-24Q	Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,	\$3,812,00	20%	\$6,099.20
FOX1820G3ZP	Network	N2248TP-E-FA-BUN	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	A CONTRACTOR OF THE PROPERTY O	20%	\$6,099.20
FOX1820G3ZN	Network	N2248TP-E-FA-BUN	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$236.00	20%	\$377.60
FOX1820G3ZR	Network	N2248TP-E-FA-BUN	Standard Airflow pack:N2K-C22481P-E-1GE, 2 AC PS, 1Fa	\$236.00	20%	\$377.60
FOX1820G3XN	Network	N2248TP-E-FA-BUN	Standard Airflow pack, NOK COCKETS E-1GE, 2 AC PS, 1Fa	\$236.00	20%	\$377.60
FCH1830V340	Network	SNS-3415-K9	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$236.00	20%	\$377.60
FCH1830V20Q	Network		Small Secure Network Server for ISE, NAC, & ACS Applical	\$1,652.00	20%	\$2,643.20
FDO1931E0CP	Network	SNS-3415-K9	Small Secure Network Server for ISE, NAC, & ACS Applicat	\$1,652.00	20%	\$2,643.20
KQ29GV1	Network	WS-C3650-24TS-E	Cisco Catalyst 3650 24 Port Data 4x1G Uplink IP Services	\$491.00	20%	\$785.60
102301	METMOLK	ISE-3315-K9	^Cisco Identity Services Engine 3315 Hardware Appliance	\$2,749.00	20%	\$4,398.40

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KQ29GV8	Network	ISE-3315-K9	^Cisco Identity Services Engine 3315 Hardware Appliance	\$2,749.00	20%	\$4,398.40
SSI16450CD1	Network	ASR1001	Cisco ASR1001 System, Crypto, 4 built-in GE, Dual P/S	\$2,010.00	20%	\$3,216.00
N/A	Network	SLASR1-AIS	Cisco ASR 1000 Advanced IP Services License	\$659.00	20%	\$1,054.40
SSI1644084T	Network	ASR1001	Cisco ASR1001 System, Crypto, 4 built-in GE, Dual P/S	\$2,010.00	20%	\$3,216.00
N/A	Network	SLASR1-AIS	Cisco ASR 1000 Advanced IP Services License	\$659.00	20%	\$1,054.40
FTX1028A0DZ	Network	CISCO2821-AC-IP	^2821 w/ AC+POE,2GE,4HWIC,3PVDM,1NME-X,2AIM,IPB	\$777.00	20%	\$1,243.20
FTX1404AHHD	Network	CISCO2811-AC-IP	^2811 w/ AC+POE,2FE,4HWICs,2PVDMs,1NME,2AIMS,IPE	\$622.00	20%	
FGL164140UA	Network	ASA5545-K8	ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, DES	\$3,454.00	20%	\$995.20
FGL163640US	Network	ASA-IC-6GE-CU-C	ASA 5545-X/5555-X Interface Card 6-port 10/100/1000, RJ-	\$960.00	20%	\$5,526.40
3112J149E77	Network	DCNM-SAN-N7K-K9	DCNM for SAN Advanced Edition for Nexus 7000	\$4,200.00	20%	\$1,536.00
3112J5C1494	Network	DCNM-SAN-N7K-K9	DCNM for SAN Advanced Edition for Nexus 7000	\$4,200.00	20%	\$6,720.00
3112J31BEBB	Network	DCNM-SAN-N7K-K9	DCNM for SAN Advanced Edition for Nexus 7000	\$4,200.00		\$6,720.00
3112J621A22	Network	DCNM-SAN-N7K-K9	DCNM for SAN Advanced Edition for Nexus 7000	\$4,200.00	20%	\$6,720.00
6011J722784	Network	DCNM-LS-N61-K9	DCNM for SAN and LAN Advanced Edt. for Nexus 6001 swi	\$1,500.00	20%	\$6,720.00
6011J4FB6E4	Network	DCNM-LS-N61-K9	DCNM for SAN and LAN Advanced Edt. for Nexus 6001 swi	\$1,500.00	20%	\$2,400.00
5511J5936F6	Network	DCNM-LAN-N5K-K9	DCNM for LAN Advanced Edt. for Nexus 5000		20%	\$2,400.00
3231J382BCB	Network	DCNM-SAN-N5K-K9	DCNM for SAN License for Nexus 5000	\$200.00	20%	\$320.00
5511JCC4BE4	Network	DCNM-LAN-N5K-K9	DCNM for LAN Advanced Edt. for Nexus 5000	\$1,400.00	20%	\$2,240.00
3231J386494	Network	DCNM-SAN-N5K-K9	DCNM for SAN License for Nexus 5000	\$200.00	20%	\$320.00
5511J498242	Network	DCNM-LAN-N5K-K9	DCNM for LAN Advanced Edt. for Nexus 5000	\$1,400.00	20%	\$2,240.00
3231J5CBC45	Network	DCNM-SAN-N5K-K9	DCNM for SAN License for Nexus 5000	\$200.00	20%	\$320.00
5511J356602	Network	DCNM-LAN-N5K-K9	DCNM for LAN Advanced Edt. for Nexus 5000	\$1,400.00	20%	\$2,240.00
3231J10A941	Network	DCNM-SAN-N5K-K9	DCNM for SAN License for Nexus 5000	\$200.00	20%	\$320.00
6011J7C9D55	Network	DCNM-LS-N61-K9	DCNM for SAN and LAN Advanced Edt. for Nexus 6001 swi	\$1,400.00	20%	\$2,240.00
6011J662295	Network	DCNM-LS-N61-K9	DCNM for SAN and LAN Advanced Edit, for Nexus 6001 swi	\$1,500.00	20%	\$2,400.00
N/A	Network	N1K-VLCPU-01	DCNM for SAN and LAN Advanced Edt. for Nexus 6001 swi	\$1,500.00	20%	\$2,400.00
6011J625448	Network	DCNM-SAN-N64-K9	Nexus 1000V Adv Ed Paper Multi-Hypervisor License Qty1	\$174.00	20%	\$278.40
6011J33628E	Network	DCNM-LAN-N64-K9	DCNM for SAN Advanced Edt. for Nexus 6004 switches	\$2,000.00	20%	\$3,200.00
6011J6944C9	Network	DCNM-SAN-N64-K9	DCNM for LAN Advanced Edt. for Nexus 6004 switches	\$800.00	20%	\$1,280.00
6011J2CAF93	Network	DCNM-LAN-N64-K9	DCNM for SAN Advanced Edt. for Nexus 6004 switches	\$2,000.00	20%	\$3,200.00
6011J2CEC8F	Network	DCNM-SAN-N64-K9	DCNM for LAN Advanced Edt. for Nexus 6004 switches	\$800.00	20%	\$1,280.00
6011J7C9E50	Network	DCNM-LAN-N64-K9	DCNM for SAN Advanced Edt. for Nexus 6004 switches	\$2,000.00	20%	\$3,200.00
6011J1BD6B3	Network	DCNM-SAN-N64-K9	DCNM for LAN Advanced Edt. for Nexus 6004 switches	\$800.00	20%	\$1,280.00
6011J2B6B05	Network	DCNM-LAN-N64-K9	DCNM for SAN Advanced Edt. for Nexus 6004 switches	\$2,000.00	20%	\$3,200.00
7361J60DD1B	Network	FS-VMW-10-SW-K9	DCNM for LAN Advanced Edt. for Nexus 6004 switches	\$800.00	20%	\$1,280.00
JMX1112L0G8	Network	ASA5510-AIP10-K8	Cisco Firepower Management Center,(VMWare) for 10 devi	\$400.00	20%	\$640.00
JAD171300TT	Network	ASA-SSM-AIP-10-K9=	MASA 5510 Appliance with AIP-SSM-10, SW, 5FE, DES	\$1,538.00	20%	\$2,460.80
FGL163640UN	Network		^ASA 5500 AIP Security Services Module-10	\$1,590.00	20%	\$2,544.00
FGL163640UP	Network	ASA5545-IPS-K9	ASA 5545-X with IPS, SW, 8GE Data, 1GE Mgmt, AC, 3DE	\$5,255.00	20%	\$8,408.00
JAD171300WE	Network	ASA-IC-6GE-CU-C	ASA 5545-X/5555-X Interface Card 6-port 10/100/1000, RJ-	\$600.00	20%	\$960,00
SAD1130000M	Network	ASA-SSM-AIP-10-K9=	^ASA 5500 AIP Security Services Module-10	\$1,590.00	20%	\$2,544.00
SAD1130000G	Network	ACE10-6500-K9=	^Application Control Engine Service Module	\$6,324.00	20%	\$2,616,23
SMG1209N676	Network	ACE10-6500-K9=	^Application Control Engine Service Module	\$6,324.00	20%	\$2,616,23
SAD115201VN	Network	WS-C6509-E-ACE-K9	^ACE 8G 6509 Bundle	\$9,811.00	20%	\$15,697.60
N/A	Contact Center	ACE10-6500-K9	^Application Control Engine Service Module	\$6,324.00	20%	\$2,616,23
N/A		VMW-VC5-STD-1A=	VMware vCenter 5 Server Standard, 1 yr support required	\$1,460.00	20%	\$2,336.00
N/A		ER90-USR-10-NEW	^EMRGNCY RSPNDR 90 USR LIC 10 PHNS NEW	\$24.00	20%	\$38.40
N/A	Business Telephony	ER90-USR-10-NEW	^EMRGNCY RSPNDR 90 USR LIC 10 PHNS NEW	\$24.00	20%	\$38.40
N/A	Business Telephony	LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony	LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony	LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A		LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
		LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A		LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A		LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony	LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
				400.00	2070	\$52.80

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N/A	Business Telephony LIC-CUCM-9X-ENH-A	LIC Manager C Est	4		
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	
N/A	Business Tolophony LIC-CUCIVI-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00		\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License		20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	LIC Manager 9 x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33,00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00		\$52.80
	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	100000000000000000000000000000000000000	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager 9 x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
WA.	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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V/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
WA	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
VA	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	DOM: 100)	\$52.80
V/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License		20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
V/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
V/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
VA.	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	LIC Manager 9 v Enhanced Single User License	\$33.00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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I/A	Business Telephony LIC CLICALON STATE	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00		\$52.80
VA	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
20.70	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License		20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
//A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33,00	20%	\$52.80
I/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager 9 v Enhanced Single User License	\$33.00	20%	\$52.80
/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
	The contract of the contract o	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80

N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20% 20%	\$52.80
Α	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00		\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
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Α	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License		20%	\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33,00 \$33.00	20%	\$52.80
Α	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	WATER STATE	20%	\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
Α	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52,80
Α	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
	The state of the s	So managor-s.v. Limanced Single Oser License	\$33.00	20%	\$52.80

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	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	18,000,000	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	LIC Manager 9 x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ENH-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Enhanced Single User License	\$33.00	20%	\$52.80
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	LIC Manager 9 x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-GUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9,x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	LIC Manager 9 x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9,x Essential User License	\$6.00	20%	\$9.60
NA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	LIC Manager D.v. Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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WA	Business Telephony LIC-CUCM-9X-ESS-A	LIC Manager 9 v Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6,00	20%	\$9.60
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VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
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N/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License		20%	\$9.60
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WA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager 9 x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
WA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	4,500
VA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
VA.	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
VA	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License		20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
Α	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
'A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6,00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	LIC Manager 9 y Especial User License	\$6.00	20%	\$9.60
'A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
'A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
'A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
1.37	Pasificas releptiony LIC-COCINI-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60

I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
I/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	385.853
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	407725		\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A		\$6.00	20%	\$9.60
A		UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	7.00
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License		20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A		\$6.00	20%	\$9.60
A		UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9,x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6,00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		1. March 2011
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License		20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
A	Business Telephony LIC-CUCM-9X-ESS-A		\$6.00	20%	\$9.60
		UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
/A	Business Telephony LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60

N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	5-27/2/27
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
WA		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00		\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	30.000	20%	\$9.60
VA		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A		\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A			UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	*\$9,60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
V/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A	Business Telephony	LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-9X-ESS-A	UC Manager-9.x Essential User License	\$6.00	20%	\$9.60
N/A		LIC-CUCM-BASIC-A	Unified Communications Manager Basic Single User	\$20.00	20%	\$32.00
WA.		LIC-CUCM-ESS-A	UC Manager Essential Single User	\$6.00	20%	\$9.60
V/A	Contact Center	LIC-CUCM-ESS-A	UC Manager Essential Single User	\$6.00	20%	\$9.60
V/A	Contact Center	LIC-CUCM-ESS-A	UC Manager Essential Single User	\$6.00	20%	\$9.60
N/A		LIC-CUCM-ESS-A	UC Manager Essential Single User	\$6.00	20%	\$9.60
V/A	Contact Center	LIC-CUCM-ESS-A	UC Manager Essential Single User	\$6.00	20%	\$9.60
I/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
V/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
V/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A		LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33,00	20%	\$52.80
V/A		LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
V/A		LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
7. 4				ψ33.00	2070	352,00

N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	LIC-CUCM-USR-A	Unified Communications Manager Enhanced Single User	\$33.00	20%	\$52.80
N/A	Contact Center	CVP-8X-PTS	CVP 8.X Port License	\$144.00	20%	\$230.40
N/A	Contact Center	CVP-STU-85≃	^CVP 8.5 Studio	\$880.00	20%	\$1,408.00
N/A	Contact Center	IPCE-DIALPORT-L	IPCC ENTERPRISE OUTBOUND DIALER PORT	\$96.00	20%	\$153.60
N/A	Contact Center	IPCE-PREMAGT-L	IPCC ENTERPRISE PREMIUM AGENT	\$272.00	20%	
N/A	Contact Center	IPCE-PROMOAGT-L	ICM to UCCE Promo - ICM Desktop to CCE Premium Agent	\$272.00	20%	\$435,20 \$435,20
N/A	Contact Center	UNITYCN8-USR	*One Unity Connection 8.x User - All user Features	\$15.00	20%	1,
FOX1809G7G8	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa			\$24.00
FOX1808GKMU	Network	N2K-C2248TPE-FA-B		\$205.00	20%	\$328.00
SSI180805ZM	Network	N5K-C5548UP-BUN	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa Nexus 5548UP in N5548UP-N2K Bundle	\$205.00	20%	\$328.00
FOX1808GKNV		N2K-C2248TPE-FA-B		\$1,283.00	20%	\$2,052.80
	Network		Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809G7GT	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1808GKNZ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809GEDQ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809GEGQ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1808GKL1	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
SSI180805ZK	Network	N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	\$1,283.00	20%	\$2,052.80
SMG1025NML8	Network	WS-C6509-E	Catalyst 6500 Enhanced 9-slot chassis,14RU,no PS,no Fan	\$6,825.00	20%	\$10,920.00
SAD112505H0	Network	ACE10-6500-K9=	^Application Control Engine Service Module	\$6,324.00	20%	\$2,616.23
FOC1807R21H	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R21A	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R219	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R211	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R200	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1749R1C6	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R20B	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R20A	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R1ZV	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R1ZG	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R21M	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R21L	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R21K	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1807R21F	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1746R0WW	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1745R18L	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1735R1MR	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
FOC1733R3D7	Network	N2K-B22HP-F	Cisco Nexus B22 Fabric Extender for HP with FETs	\$249.00	20%	\$398.40
N/A	Network	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMVV-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=				\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center		VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
		VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378,00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.80

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N/A	Contact Center	VMVV-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.8
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.8
N/A	Contact Center	VMW-VS5-ST-1A=	VMware vSphere 6 Standard (1 CPU), 1yr, Support Require	\$378.00	20%	\$604.8
N/A	Network	L-ISE-ADV-S-1K=	Cisco ISE 1K EndPoint Advanced Subscription License	\$17,600.00	20%	\$28,160
FTX1849ALA2	Contact Center	CISCO3925E-V/K9	Cisco 3925E Voice Bundle, PVDM3-64, UC License PAK, FU	\$2,034.00	20%	\$3,254
FTX1849ALA1	Contact Center	CISCO3925E-V/K9	Cisco 3925E Voice Bundle, PVDM3-64, UC License PAK, FI	\$2,034.00	20%	\$3,254
QCI1523A42J	Contact Center	UCS-C210M2-VCD2	^Bare Metal UCS C210M2 Svr., 2xE5640 CPU,48GB RAM,1	\$749.00	20%	\$1,198
QCI1522A8XZ	Contact Center	UCS-C210M2-VCD2	^Bare Metal UCS C210M2 Svr.,2xE5640 CPU,48GB RAM,1	\$749.00	20%	\$1,198
QCI1631A03Y	Contact Center	R210-2121605W	UCS C210 M2 Srvr w/1PSU, w/o CPU, mem, HDD, DVD or	\$501.00	20%	\$801.6
FTX1704AKRF	Contact Center	CISCO3945-V/K9	Cisco 3945 Voice Bundle, PVDM3-64, UC License PAK, FL	\$1,622.00	20%	\$2,595
FCH1703V1WT	Contact Center	UCUCS-EZ-C220M3S	UCS C220 M3 SFF dual-4-core/3.3 GHz, 64 GB RAM, 8x30	\$276.00	20%	\$441.
FCH1703V1XV	Contact Center	UCUCS-EZ-C220M3S	UCS C220 M3 SFF dual-4-core/3,3 GHz, 64 GB RAM, 8x30	\$276.00	20%	\$441.
FCH1934V0VG	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH1934V0VF	Center / Business Te	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted 9	\$424.00	20%	\$678.4
FCH1934V0ZD	Center / Business Te	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH1933V2KW	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH1934V0VL	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH1934V0SL	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted 9	\$424.00	20%	\$678.4
FCH1933V2T5	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.
FCH1934V0VJ	Center / Business Te		Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
QCI1632A0AK	Contact Center	R210-2121605W	UCS C210 M2 Srvr w/1PSU, w/o CPU, mem, HDD, DVD or	\$501.00	20%	\$801.6
QCI1632A08X	Contact Center	R210-2121605W	UCS C210 M2 Srvr w/1PSU, w/o CPU, mem, HDD, DVD or	\$501.00	20%	\$801.6
QCI1632A0AT	Contact Center	R210-2121605W	UCS C210 M2 Srvr w/1PSU, w/o CPU, mem, HDD, DVD or	\$501.00	20%	\$801.6
QCI1631A014	Contact Center	R210-2121605W	UCS C210 M2 Srvr w/1PSU, w/o CPU, mem, HDD, DVD or	\$501.00	20%	\$801.6
FTX1637ALM8	Contact Center	CISCO3925-V/K9	Cisco 3925 Voice Bundle, PVDM3-64, UC License PAK, FL	\$1,133.00	20%	\$1,812
FTX1637ALL8	Contact Center	CISCO3925-V/K9	Cisco 3925 Voice Bundle, PVDM3-64, UC License PAK, FL	\$1,133.00	20%	\$1,812
FTX1637ALMG	Contact Center	CISCO3925-V/K9	Cisco 3925 Voice Bundle, PVDM3-64, UC License PAK, FL	\$1,133.00	20%	\$1,812
FTX1637ALM7	Contact Center	CISCO3925-V/K9	Cisco 3925 Voice Bundle, PVDM3-64, UC License PAK, FL	\$1,133.00	20%	\$1,812
JMX193880FS	Network CIP	FS750-K9	Cisco Firepower Management Center 750 Chassis, 1U	\$2,591.00	20%	\$4,145
JMX193880FQ	Network CIP	FS750-K9	Cisco Firepower Management Center 750 Chassis, 10	\$2,591.00	20%	\$4,145
FD01931E0CR	Network CIP	WS-C3650-24TS-L	Cisco Catalyst 3650 24 Port Data 4x1G Uplink LAN Base	\$214.00	20%	\$342.4
FD01931P09L	Network CIP	WS-C3650-24TS-L	Cisco Catalyst 3650 24 Port Data 4x1G Uplink LAN Base	\$214.00	20%	\$342.4
FD01931E0CY	Network CIP	WS-C3650-24TS-L	Cisco Catalyst 3650 24 Port Data 4x1G Uplink LAN Base	\$214.00	20%	\$342.4
FD01931E0CN	Network CIP	WS-C3650-24TS-L	Cisco Catalyst 3650 24 Port Data 4x1G Uplink LAN Base	\$214.00	20%	\$342.4
FTX193910ZG	Network CIP	ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AE	\$2.303.00	20%	\$3,684.
FTX193910ZK	Network CIP	ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AB	\$2,303.00	20%	\$3,684
FTX193910ZP	Network CIP	ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AE	\$2,303.00	20%	7.7.
FTX193910ZM	Network CIP	ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AB	\$2,303.00	20%	\$3,684 \$3,684
FD01933E1MB	Network CIP	WS-C3650-48TS-E	Cisco Catalyst 3650 48 Port Data 4x1G Uplink IP Services	\$939.00	20%	\$1,502
FD01943Q104	Network CIP	WS-C3650-48TS-E	Cisco Catalyst 3650 48 Port Data 4x1G Uplink IP Services	\$939.00	20%	\$1,502
FCH18389FJ1	U. 1.15(3)(15(1))(F-1)	CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hndst with Camera	\$24.00	20%	\$38.4
FCH19208M0M		CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hindst with Camera	\$24.00	20%	\$38.4
FCH19208MGA		CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hindst with Camera	\$24.00	20%	\$38.4
FCH19208MK0		CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hndst with Camera	\$24.00	20%	\$38.4 \$38.4
FCH19208MKB		CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hndst with Camera	\$24.00	20%	1.4
FCH19208MUF		CP-9951-C-CAM-K9=	Cisco UC Phone 9951, Charcoal, Std Hndst with Camera	120000000000000000000000000000000000000		\$38.4
80A60944	Business Telephony		Cisco TelePresence Management Suite - Includes 10 Syste	\$24.00	20%	\$38.4
N/A	Business Telephony		Video Comm Server 10 Add Non-traversal Network Calls	\$912.00	20%	\$1,459.
N/A	Business Telephony		^TMSPE - Add 25 Active Jabber Video Client Registrations	\$950.00 \$432.00	20%	\$1,520.
FCH2010V0B7	Contact Center	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted S	10000000	20%	\$691.2
FCH2010V0B7				\$424.00	20%	\$678.4
	Contact Center	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH2011V1HK	Contact Center	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FCH2011V1HL	Contact Center	BE7M-M4-K9	Cisco Business Edition 7000M Svr (M4), Export Restricted S	\$424.00	20%	\$678.4
FOC0931U2JT	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6

FOC0931U2KJ	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
FOC0931U2KD	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	
FOC0935U28K	Network	WS-C3750G-24PS-S	**Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00 \$516.00	20%	\$825.6
FOC0935U24C	Network	WS-C3750G-24PS-S	**Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00		\$825.6
FOC0935U24C	Network	WS-C3750G-24PS-S	*Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
FOC1007Y31C	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image		20%	\$825.6
FTX1028A2C1	Network	CISCO2821-AC-IP	^2821 w/ AC+POE,2GE,4HWIC,3PVDM,1NME-X,2AIM,IPB	\$516.00	20%	\$825.6
FOC1114Y0K5	Network	WS-C3750G-24PS-S	**Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$777.00	20%	\$1,243
FOC1114Y0K4		WS-C3750G-24PS-S		\$516.00	20%	\$825.6
FOC111470K4	Network Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
FOC1217Y0WZ	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
			^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
FOC1228T0P9	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1224W23K	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641
FOC1231Y1R4	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.
FOC1231Y1R0	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641.
SMG1235N4E3	Network	VS-C6509E-S720-10G	Catalyst Chassis+Fan Tray+Sup720-10G; IP Base ONLY in	\$6,825.00	20%	\$10,920
SMG1233N2SH	Network	VS-C6509E-S720-10G	Catalyst Chassis+Fan Tray+Sup720-10G; IP Base ONLY in	\$6,825.00	20%	\$10,920
FOC1237W2B8	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825.6
FOC1232Z2EZ	Network	WS-C3750G-48PS-E	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPS Image	\$1,026.00	20%	\$1,641
FOC1241W4W6	Network	WS-C3750G-24PS-S	^Catalyst 3750 24 10/100/1000T PoE + 4 SFP + IPB Image	\$516.00	20%	\$825,6
TX1404AHH7	Network	CISCO2811-AC-IP	^2811 w/ AC+POE,2FE,4HWICs,2PVDMs,1NME,2AIMS,IPE	\$622.00	20%	\$995.2
FTX1404AHH9	Network	CISCO2811-AC-IP	^2811 w/ AC+POE,2FE,4HWICs,2PVDMs,1NME,2AIMS,IPE	\$622.00	20%	\$995.2
FDO1353Z0E1	Network	WS-C3750V2-24PS-S	Catalyst 3750V2 24 10/100 PoE + 2 SFP Standard Image	\$288.00	20%	\$460.8
FDO1353Z0CL	Network	WS-C3750V2-24PS-S	Catalyst 3750V2 24 10/100 PoE + 2 SFP Standard Image	\$288.00	20%	\$460.8
FDO1353Z0EC	Network	WS-C3750V2-24PS-S	Catalyst 3750V2 24 10/100 PoE + 2 SFP Standard Image	\$288.00	20%	\$460.8
FOC1418T1YH	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1418T1P0	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1418T1YJ	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1418T1YG	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1418T1JY	Network	WS-CBS3020-HPQ	^Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FOC1418T1JJ	Network	WS-CBS3020-HPQ	*Cisco Catalyst Blade Switch 3020 for HP, RESTRICTED P	\$179.00	20%	\$286.4
FTX1508AJBC	Network	CISCO2811-AC-IP	^2811 w/ AC+POE,2FE,4HWICs,2PVDMs,1NME,2AIMS,IPE	\$622.00	20%	\$995.2
FOC1502Y4B7	Network	WS-C3750G-48PS-S	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPB Image	\$1,026.00	20%	\$1,641.
FOC1502Y4BH	Network	WS-C3750G-48PS-S	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPB Image	\$1,026.00	20%	\$1,641.
FOX1415GBH7	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.
FOC1612V09M	Network	WS-C3750G-48PS-S	^Catalyst 3750 48 10/100/1000T PoE + 4 SFP + IPB Image	\$1,026.00	20%	\$1,641.
FOX1609GVRX	Network	WS-C4510RE-S7+96V+	4510R+E Chassis, Two WS-X4748-RJ45V+E, Sup7-E	\$2,841.00	20%	\$4,545.
FXS1634Q2GB	Network	WS-C4507RE+96V+	WS-C4507R+E Chassis, two WS-X4648-RJ45V+E, Sup7L-	\$1,341.00	20%	\$2,145.
FXS1634Q2CK	Network	WS-C4507RE+96V+	WS-C4507R+E Chassis, two WS-X4648-RJ45V+E, Sup7L-	\$1,341.00	20%	\$2,145.
FDO1630R31Q	Network	WS-C3750X-48PF-E	Catalyst 3750X 48 Port Full PoE IP Services	\$882.00	20%	\$1,411.
FOC1642Y5J8	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$171.2
FDO1636Y24J	Network	WS-C3750G-12S-S-WS	Cat3750 12 SFP Std. Multilayer Image REFURBISHED	\$966.00	20%	\$1,545.
FOC1844U0ZD	Network	WS-C3850-48U-E	Cisco Catalyst 3850 48 Port UPOE IP Services	\$1,386,00	20%	\$2,217.
FCW1852B4PS	Network	WS-C2960X-24PS-L	Catalyst 2960-X 24 GigE PoE 370W, 4 x 1G SFP, LAN Base	\$201.00	20%	\$321.6
FCW1852A63N	Network	WS-C2960X-24PS-L	Catalyst 2960-X 24 GigE PoE 370W, 4 x 1G SFP, LAN Base	\$201.00	20%	\$321.6
FJC1904A086	Network	CISCO2921/K9	Cisco 2921 w/3 GE,4 EHWIC,3 DSP,1 SM,256MB CF,512M	\$567.00	20%	\$907.2
FJC1904A087	Network	CISCO2921/K9	Cisco 2921 w/3 GE,4 EHWIC,3 DSP,1 SM,256MB CF,512M	\$567.00	20%	\$907.2
FJC1904A089	Network	CISCO2921/K9	Cisco 2921 w/3 GE,4 EHWIC,3 DSP,1 SM,256MB CF,512M	\$567.00	20%	\$907.2
FJC1904A088	Network	CISCO2921/K9	Cisco 2921 w/3 GE,4 EHWIC,3 DSP,1 SM,256MB CF,512M	\$567.00	20%	\$907.2
FXS1903Q08U	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104,
FXS1903Q0AH	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.
FXS1903Q099	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.
FXS1903Q0AC	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00		
FXS1903Q0A0	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20% 20%	\$3,104. \$3,104.
FXS1902Q03L	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	A-60 A-60-60 1 A-50-5 F		40.7
NO 130ZQUOL	MELMOIK	VVG-04500-E	Californ E-Series 6-Siot Chassis, Ian, no ps	\$1,940.00	20%	\$3,104.

FXS1902Q044	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1903Q09Q	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1903Q08W	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1903Q08Z	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1902Q03K	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1902Q06K	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FOC1912R0KF	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249,00	20%	\$398.40
OC1907R13J	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
FOC1907R14X	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS.	\$249.00	20%	\$398.40
OC1910R0MU	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
FOC1907R143	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
OC1912R0DE	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS.	\$249.00	20%	\$398.40
FCH1920V1D1	Network	SNS-3495-K9	Large Secure Server for ISE, ACS and NAC Applications	\$3,362.00	20%	\$5,379.20
FCH1920V1CY	Network	SNS-3495-K9	Large Secure Server for ISE, ACS and NAC Applications	\$3,362.00	20%	\$5,379.20
FOC1933R1BY	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398,40
FOC1933R0P9	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
FOC1933R199	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
FOC1934R2KD	Network	N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS,	\$249.00	20%	\$398.40
-XS1944Q2N3	Network	WS-C4510R+E	Catalyst 4500E 10 slot chassis for 48Gbps/slot, fan, no ps	\$5,250.00	20%	\$8,400,00
FXS1944Q2Q9	Network	WS-C4510R+E	Catalyst 4500E 10 slot chassis for 48Gbps/slot, fan, no ps	\$5,250.00	20%	\$8,400.00
FXS1949Q2F5	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
FXS1949Q2FT	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	\$3,104.00
SPE1946002Q	Network	WS-C4506-E	Cat4500 E-Series 6-Slot Chassis, fan, no ps	\$1,940.00	20%	
FOC1649Y16A	Network	WS-C3560C-12PC-S	Catalyst 3560C Switch 12 FE PoE, 2 x Dual Uplink, IP Base	\$107.00	20%	\$3,104.00
FTX190410TY	Network	ASA5545-K9	ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AE	\$2,159,00	20%	\$171.20 \$3,454.40
FTX190411K4	Network	ASA5545-K9	ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AE	\$2,159.00	20%	100 A 100 A 170
FTX190411K1	Network	ASA5545-K9	ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AE	\$2,159.00	20%	\$3,454.40 \$3,454.40
FTX1905106J	Network	ASA5545-K9	ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AE	\$2,159.00	20%	254.5.7.2.5.5.
FCH1921V093	Network	SNS-3415-K9	Small Secure Network Server for ISE, NAC, & ACS Applicat	\$1,652.00	20%	\$3,454.40
FCH1920V1ER	Network	SNS-3415-K9	Small Secure Network Server for ISE, NAC, & ACS Applicat	\$1,652.00	20%	\$2,643.20
FCH1920V2SW	Network	SNS-3415-K9	Small Secure Network Server for ISE, NAC, & ACS Applicat	\$1,652.00	20%	\$2,643.20
FCH1921V0AN	Network	SNS-3495-K9	Large Secure Server for ISE, ACS and NAC Applications	\$3,362.00	20%	\$2,643.20
FGL163640UL	Network	ASA5545-IPS-K9	ASA 5545-X with IPS, SW, 8GE Data, 1GE Mgmt, AC, 3DE	\$5,255.00	20%	\$5,379.20 \$8,408.00
FGL163640HB	Network	ASA-IC-6GE-CU-C	ASA 5545-X/5555-X Interface Card 6-port 10/100/1000, RJ-	\$600.00	20%	\$960.00
FTX1404AHH7	Network	CISCO2811-AC-IP	^2811 w/ AC+POE,2FE,4HWICs,2PVDMs,1NME,2AIMS,IPE	\$52.83	20%	
FOX1808GKNV	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$84.53 \$328.00
FOX1809G7GT	Network	N2K-C2248TPE-FA-B	Standard Airflow pack: N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809G7G8	Network	N2K-C2248TPE-FA-B	Standard Airflow pack: N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
OX1808GKMU	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
SSI180805ZM	Network	N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	\$1,283.00	20%	VA 357, 275, 25
FOX1808GKL1	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$2,052.80 \$328.00
SSI180805ZK	Network	N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	\$1.283.00	20%	\$2,052.80
FOX1808GKNZ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack: N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809GEDQ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	\$328.00
FOX1809GEGQ	Network	N2K-C2248TPE-FA-B	Standard Airflow pack: N2K-C2248TP-E-1GE, 2 AC PS, 1Fa	\$205.00	20%	
IMX1112L0E5	Network	ASA5510-AIP10-K8	^ASA 5510 Appliance with AIP-SSM-10, SW, 5FE, DES	\$1,538.00	20%	\$328.00
V/A	Network	N1K-VLCPU-01	Nexus 1000V Adv Ed Paper Multi-Hypervisor License Qtv1	\$174.00	20%	\$2,460,80
N/A	Network	L-ASA5545-TAM=	Cisco ASA5545 FirePOWER IPS and AMP Licenses	\$30,020.00	20%	\$278.40
N/A	Network	L-ASA5545-TAM=	Cisco ASA5545 FirePOWER IPS and AMP Licenses	\$8,060,16	20%	\$48,032.00
N/A	Network	L-CSACS-5-LRG-LIC=	Libertoco	\$2,000.00	20%	\$12,896.26
CH1934V02U	Network	PI-UCS-APL-K9	Cisco Prime Infrastructure UCS Physical HW Appliance	\$1,920.00	20%	\$3,200.00
CH1935V070	Network	AIR-CT5520-K9	Cisco 5520 Wireless Controller w/rack mounting kit	\$2,600.00	20%	\$3,072.00
CH1935V07E	Network	AIR-CT5520-K9	Cisco 5520 Wireless Controller w/rack mounting kit	\$2,600.00	20%	\$4,160.00
CH1946V349	Network	AIR-MSE-3365-K9	MSE 3365 Appliance	\$1,840.00		\$4,160.00
FCW2020F05F	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20% 20%	\$2,944.00
			The standard and the standard of the Land	WEE 1.32	20%	\$355.07

					20%	\$1,070,715,17
JAE1011Y333	Network	DS-X9016-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XBQ3	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XG1V	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XCF3	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XBT3	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1008WCE4	Network	DS-X9032-HV=	^MDS 9509 Base Config. Chassis 2 Sups 2 AC Power Sup	\$703.71	20%	\$1,125.94
JAB1011N0UT	Network	DS-C9509-HV-K9	^MDS 9509 Base Config: Chassis 2 Sups 2 AC Power Sup	\$340.88	20%	\$545.41
JAB1011N0US	Network	DS-C9509-HV-K9	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$340.88	20%	\$545.41
JAE1010XBR1	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1008WGAB	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1008WCE2	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XBTL	Network	DS-X9032-HV=	^MDS 9509 Base Config: Chassis 2 Sups 2 AC Power Sup	\$703,71	20%	\$1,125,94
JAB1011N0V1	Network	DS-C9509-HV-K9	AMDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$340.88	20%	\$545.41
JAE1010XBQJ	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XBU1	Network	DS-X9032-HV=	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$703.71	20%	\$1,125.94
JAE1010XBR6	Network	DS-X9032-HV=	AMDS 9509 Base Config: Chassis 2 Sups 2 AC Power Sup	\$703.71	20%	\$1,125.94
JAB1010N0QE	Network	DS-C9509-HV-K9	^MDS 9000 HV Bundle: 32-port FC Module 32 SFPs	\$340.88	20%	\$545,41
N/A	Network	C1FPAIRK9	Cisco ONE Foundation Perpetual - Wireless	\$15,900.00	20%	\$25,440.00
FCH1934V0X6	Network	C1-AIR-CT5520-K9	Cisco ONE - 5520 Wireless Controller w/rack mounting kit	\$2,600.00	20%	\$4,160.00
V/A	Network	C1FPAIRK9	Cisco ONE Foundation Perpetual - Wireless	\$15,900.00	20%	\$25,440.00
FCH1934V0VY	Network	C1-AIR-CT5520-K9	Cisco ONE - 5520 Wireless Controller w/rack mounting kit	\$2,600,00	20%	\$4,160.00
WA	Network	C1APAIRK9	Cisco ONE Advanced Perpetual - Wireless	\$6,900.00	20%	\$11,040.00
WA	Network	C1APAIRK9	Cisco ONE Advanced Perpetual - Wireless	\$6,900.00	20%	\$11,040.00
FOC2033X08J	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FOC2032U0KP	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FCW2033F0AB	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FCW2032D0EL	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355,07
FCW2032C0C2	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
MSA20240789	Network	ASA5500X-SSD120=	ASA 5512-X through 5555-X 120 GB MLC SED SSD (Spare	\$6.12	20%	\$9.79
MSA2024077Z	Network	ASA5500X-SSD120=	ASA 5512-X through 5555-X 120 GB MLC SED SSD (Spare	\$6.12	20%	\$9.79
MSA20130973	Network	ASA5500X-SSD120=	ASA 5512-X through 5555-X 120 GB MLC SED SSD (Spare	\$6.12	20%	\$9.79
MSA202000LD	Network	ASA5500X-SSD120=	ASA 5512-X through 5555-X 120 GB MLC SED SSD (Spare	\$6.12	20%	\$9.79
FOC2023X0F7	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FOC2023U0QV	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355,07
FOC2023U0P3	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FOC2022U0VL	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07
FCW2023D0EZ	Network	C1-WSC3850-12X48UL	Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LA	\$221.92	20%	\$355.07 \$355.07

\$1,070,715.17
TOTAL 3 YEAR COST
TRANSFER THIS
AMOUNT TO
APPENDIX B



APPENDIX B- RESPONSE WORKBOOK TAB 2 VOICE-ECMU (ENTER DATA IN YELLOW CELLS ONLY)

Cisco Quote #14292001

NSTANCE IUMBER	PRODUCT LINE	ITEM NAME	QUANTITY	SITE ID	SERVICE LEVEL	NOTES	ANNUAL LIST PRICE	DISCOUNT FROM ANNUAL LIST PRICE	FINAL NET PRICE (; Years Three Years 10/1/2016-9/30/2019)
N/A	Business Telephony	ER10-USR-1	2810		ECMU	ADD ON - No Version 10	\$5,622.00	21%	\$13,319,40
N/A	Business Telephony	LIC-CUCM-10X-ENH-A	1710		ECMU	ADD ON - No Version 10	\$56,463.00	21%	\$133,739.10
1730430498	Contact Center	LIC-CUCM-10X-ENH-A	7	2000254036	ECMU	SWSS - Active	\$187.42	21%	\$547.47
1734784894	Contact Center	LIC-CUCM-10X-ENH-A	6	2000907934	ECMU	SWSS - Active	\$157.77	21%	
1778483704	Contact Center	LIC-CUCM-10X-ENH-A	1	2000616008	ECMU	SWSS - Active	\$41.95	21%	\$469.26
1707516928	Contact Center	LIC-CUCM-10X-ENH-A	6	2000804189	ECMU	SWSS - Active	\$197.91	21%	\$78.21
1707514239	Contact Center	LIC-CUCM-10X-ENH-A	15	2000804192	ECMU	SWSS - Active	\$445.27	21%	\$469.26
1713829236	Contact Center	LIC-CUCM-10X-ENH-A	6	2000826264		SWSS - Active	\$188.69	21%	\$1,173.15
1522519696	Contact Center	LIC-CUCM-10X-ENH-A	1	417573526	ECMU	SWSS - Expired	\$66.00	21%	\$469.26
1522519695	Contact Center	LIC-CUCM-10X-ENH-A	1	417573526	ECMU	SWSS - Expired	\$66.00	21%	\$78.21
1522519674	Contact Center	LIC-CUCM-10X-ENH-A	1	417573526	ECMU	SWSS - Expired	\$66.00	21%	\$78.21
1561512849	Business Telephony	LIC-CUCM-10X-ENH-A	3	415233116	ECMU	SWSS - Expired	\$132.00	21%	\$78.21
N/A	Business Telephony	LIC-CUCM-10X-ESS-A	698	415233116	ECMU	ADD ON - No Version 10	\$4,194.00	21%	\$234.63
N/A	Business Telephony	UNITYCN10-STD-USR	2000	415233116	ECMU	ADD ON - No Version 10	\$30,015.00	21%	\$9,925.56
1707519207	Business Telephony	UNITYCN10-STD-USR	6	415233116	ECMU	SWSS - Active	\$89.96		\$71,100.00
1561512833	Contact Center	IPCE-DIALPORT-L	96	405617417	ECMU	SWSS - Expired	\$9,312.00	21%	\$213.30
100903752	Contact Center	IPCE-PREMAGT-L	20	400051708	ECMU	SWSS - Expired	\$5,712.00	21%	\$21,841.92
1561512754	Contact Center	IPCE-PROMOAGT-L	47	404422608	ECMU	SWSS - Expired	\$13,056.00	21%	\$12,892.80
1756950272	Contact Center	CCEH-FINESSE-SVR-L	1	2000819471	ECMU	SWSS - Active		21%	\$30,298.08
	- Diversity Street	313/1/2014		2000010471	LONIO	3VV33 - Active	\$231.45	21%	\$264.92
						TOTALS:		21%	\$297,270.95

TOTAL 3 YEAR COST TRANSFER THIS AMOUNT TO APPENDIX B

Terms of Quote

The prices outlined in this proposal will remain valid for 60 days until: 15-OCT-16

Please include this quote number on all purchase orders and correspondence.

The attached List Price Quotation is provided by Cisco subject to the following terms and conditions:

- Prices are shown in the same currency as the CSCC quote.
- Pricing is valid for 60 days and was prepared using the Cisco Global Price List effective on the date of preparation.
- 3. The attached List Price Quotation was based on the detailed equipment inventory list and effective contract coverage dates for each chassis as recorded in the current SMARTnet contract. Items in red have reached "End of Support" and pricing may be pro-rated for these items. Any change to the equipment inventory list or effective contract coverage date(s) will require preparation of a revised quotation.
- 4. Cisco subscription pricing is based on a twelve-month subscription contract with payment made in full for the entire twelve-month period of performance. Partial year contracts (period of performance less than twelve months) will include a ten percent adjustment; requests for any payment term other than the pre-paid twelve months in advance will include an additional ten percent adjustment. Such adjustments will be added to the List Price Quotation and require preparation of a revised quotation.
- 5. This SMARTnet pricing is based on continuous SMARTnet coverage of the Cisco equipment. The SMARTnet renewal start date must be effective on the day immediately following the expiration date of the current SMARTnet subscription contract. Gaps in SMARTnet coverage will make the equipment subject to inspection and re-certification to confirm suitability prior to contract renewal. Inspection fees and any associated re-certification costs are the responsibility of:
- 6. Cisco Services and the obligations of the parties in performance of the services purchased are described in detail at www.cisco.com/go/servicedescriptions. Additionally, associated entitlements and other collateral related to Cisco Services are shown on the following Cisco.com website:
- http://www.cisco.com/en/US/partner/products/svcs/ps3034/ps2827/serv_category_home.html
- 7. A SMARTnet subscription renewal is contingent upon the receipt by Cisco of a fully funded purchase order from an authorized Cisco partner or reseller. Final pricing terms and conditions are to be negotiated between JEA and the authorized Cisco partner or reseller.

Product Number	Product Description	PAK/Serial Nun		Parent Instance Number Service Le	evel Service	Start Date	End Date	Unit Annual List Quantity Price	Discount % Off Prorated List	Total 5 Year Price (01-Oc 2021 to 30-S 2026)
1 WS-C4507RE+96V+ 7 CISCO3925-V/K9	WS-C4507R+E Chassis, two WS-X4648-RJ45V+E, Sup7L-E, LAN Base ^Cisco 3925 Voice Bundle, PVDM3-64, UC License PAK, FL-CUBE10	FXS1634Q2GB FTX1637ALM8	1012566323 1014860427	1012566323 SSSNT 1014860427 SW	SOLN SU SNTC NO	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$2,180.77 1 \$1,651.00	27.89%	\$5,63 \$90
6 CISCO3945-V/K9 9 PWR-C45-6000ACV/2	^Cisco 3945 Voice Bundle, PVDM3-64, UC License PAK, FL-CUBE10 Catalyst 4500 6000W AC dual input Power Supply (Data + PoE)	FTX1704AKRF AZS17340AC0	1209543137 1453976903	1209543137 SW 1453976903 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$2,366.00 1 \$0.00	22.50%	\$1,3
0 N7K-C7010-B2S2E 0 N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power Supplies Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power Supplies	JAF1732BKTR JAF1732BLBE	1458039023 1458039448	1458039023 SW 1458039448 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$13,447.00 1 \$13,447.00	27.89%	\$47,65 \$47,65
0 N7K-C7010-B2S2E	Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power Supplies	JAF1732AKAM	1458039814	1458039814 SW	SNTC NC	01-Apr-2022	31-Mar-2027	1 \$13,447.0	27.89%	\$47,6
0 N7K-C7010-B2S2E 0 N6K-C6001-64T	Nexus 7010 Bundle (Chassis,1xSUP2E,5xFAB2),No Power Supplies ^Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p QSFP+	JAF1732BKTQ FOC1812R105	1458040143 1534276676	1458040143 SW 1534276676 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$13,447.00 1 \$2,031.00	22.50%	\$47,65 \$17
2 N6K-C6001-64T 4 N5K-C5548UP-FA	^Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p QSFP+ ^Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	FOC1808R2BR SSI1808072N	1534276897 1534277062	1534276897 SW 1534277062 SNT	SNTC NC SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$2,031.00 1 \$1,991.00	25.58%	\$1 \$3,2
3 N5K-C5548UP-FA 2 N5548UP-4N2248TP	^^Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans ^Nexus 5548UP/4xN2248TP	SSI180804VQ 1065718371	1534288271 1534593491	1534288271 SNT 1534593491 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$1,991.00 1 \$0.00	⊣ ⊦	\$3,2
4 N2K-C2248TPE-FA-B 5 N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	FOX1809G7GT FOX1808GKNV	1534514352 1534514334	1534593491 SNT 1534593491 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$256.00 1 \$256.00	⊣	\$ <u>\$</u>
7 N5K-C5548UP-BUN 2 N2K-C2248TPE-FA-B	^^Nexus 5548UP in N5548UP-N2K Bundle Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	SSI180805ZM FOX1809G7G8	1534514395 1534514369	1534593491 SNT 1534593491 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$1,673.00 1 \$256.00	25.58%	\$2,6 \$9
3 N2K-C2248TPE-FA-B 7 N6K-C6001-64T	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan ^Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p QSFP+	FOX1808GKMU FOC1808R2BS	1534514382 1535073433	1534593491 SNT 1535073433 SW	SNTC 8X SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$256.00 1 \$2,031.00	27.89%	\$
8 N6K-C6001-64T	^Nexus 6001, 1RU switch, fixed 48p of 10G BASE-T and 4p QSFP+	FOC1808R2CD	1535073665	1535073665 SW	SNTC NC	01-Apr-2022	31-Mar-2027	1 \$2,031.0	22.50%	\$
9 N6004-B-24Q 2 N6004-B-24Q	^Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,4 FAN ^Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,4 FAN	FOC1818R035 FOC1816R33H	1548048431 1548048975	1548048431 SW 1548048975 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$4,608.00 1 \$4,608.00	22.50%	Ş
5 N6004-B-24Q 6 CISCO3925E-V/K9	^Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,4 FAN	FOC1818R02H FTX1849ALA2	1548206075 1609806281	1548206075 SW 1609806281 SW	SNTC NC	01-Apr-2022 01-Apr-2022		1 \$4,608.00 1 \$3,517.00	⊣ ⊢	\$2
CISCO3925E-V/K9 WS-C4948E-F-S	^Cisco 3925E Voice Bundle,PVDM3-64, UC License PAK, FL-CUBE10 ^Cat 4948E-F, IPB, 48x 10/100/1000+ 4 SFP+, AC PS, Fr Ext	FTX1849ALA1 CAT1846S06X	1609806525 1616902604	1609806525 SW 1616902604 SNT	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$3,517.00 1 \$1,803.00	⊣ ⊢	\$2 \$
0 WS-C4948E-F-S 2 WS-C4948E-F-S	^Cat 4948E-F, IPB, 48x 10/100/1000+ 4 SFP+, AC PS, Fr Ext ^Cat 4948E-F, IPB, 48x 10/100/1000+ 4 SFP+, AC PS, Fr Ext	CAT1848S1W1 CAT1849S2D1	1619261736 1619262868	1619261736 SNT 1619262868 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,803.00 1 \$1,803.00	_	(
4 WS-C4948E-F-S 6 WS-C4948E-F-S	^Cat 4948E-F, IPB, 48x 10/100/1000+ 4 SFP+, AC PS, Fr Ext ^Cat 4948E-F, IPB, 48x 10/100/1000+ 4 SFP+, AC PS, Fr Ext	CAT1847S2YJ CAT1847S2WP	1619262972 1619968852	1619262972 SNT 1619968852 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$1,803.00 1 \$1,803.00	22.50%	9
8 FS-VMW-10-SW-K9 9 ASA5545-K9	Cisco Firepower Management Center, (VMWare) for 10 devices ^ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	7361J60DD1B FTX190411K4	1625005376 1626375452	1625005376 ECMU 1626375452 SNT	SWSS SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	2 \$414.00 1 \$2,915.70	27.89%	\$2 \$7
8 CISCO2921/K9	^Cisco 2921 w/3 GE,4 EHWIC,3 DSP,1 SM,256MB CF,512MB DRAM,IPB	FJC1904A086	1627311876	1627311876 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$1,017.0	22.50%	Ç
9 WS-C4506-E 9 PI-UCS-APL-K9	Cat4500 E-Series 6-Slot Chassis, fan, no ps ^Cisco Prime Infrastructure UCS Physical HW Appliance	FXS1903Q0AH FCH1934V02U	1638673430 1711295906	1638673430 SNT 1711295906 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,591.4 1 \$2,273.4	25.58%	\$6 \$3
7 C1-AIR-CT5520-K9 2 C1-AIR-CT5520-K9	Cisco ONE - 5520 Wireless Controller w/rack mounting kit Cisco ONE - 5520 Wireless Controller w/rack mounting kit	FCH1934V0VY FCH1934V0X6	1711833923 1711834104	1711833923 SNT 1711834104 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,948.20 1 \$2,948.20	⊣ ⊦	\$10 \$10
7 AIR-CT5520-K9 4 BE7M-M4-K9	Cisco 5520 Wireless Controller w/rack mounting kit ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH1935V070 FCH1934V0VF	1713574928 1714513844	1713574928 SNT 1714513844 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,804.69 1 \$424.00		\$9
2 BE7M-M4-K9 0 BE7M-M4-K9	^Cisco Business Edition 7000M Svr (M4), Export Restricted SW ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH1934V0VL FCH1933V2T5	1714515567 1714516758	1714515567 SNT 1714516758 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$424.00 1 \$424.00	⊣ ⊦	
8 WS-C2960X-24TS-L 3 WS-C3650-24TS-L	Catalyst 2960-X 24 GigE, 4 x 1G SFP, LAN Base Cisco Catalyst 3650 24 Port Data 4x1G Uplink LAN Base	FCW1936B26H FDO1931E0CR	1715385650 1716186674	1715385650 SNT 1716186674 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$188.2 1 \$306.00	27.89%	\$:
7 WS-C3650-24TS-E 1 WS-C3650-48TS-E	Cisco Catalyst 3650 24 Port Data 4x1G Uplink IP Services Cisco Catalyst 3650 48 Port Data 4x1G Uplink IP Services	FDO1931E0CP FDO1933E1MB	1716225643 1718247612	1716225643 SNT 1718247612 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$743.5 1 \$1,311.0	27.89%	\$:
2 WS-C2960X-24PS-L	Catalyst 2960-X 24 GigE PoE 370W, 4 x 1G SFP, LAN Base	FCW1947A47Q	1751044957	1751044957 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$251.9	27.89%	
3 C2921-VSEC/K9 7 C3945E-VSEC/K9	^Cisco 2921 Voice Sec. Bundle, PVDM3-32, UC&SEC Lic,FL-CUBE5	FJC2010A25X FJC2014D0AY	1773461571 1780967619	1773461571 SW 1780967619 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$824.00 1 \$3,969.00	22.50%	\$2
3 BE7M-M4-K9 1 BE7M-M4-K9	^Cisco Business Edition 7000M Svr (M4), Export Restricted SW ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH2010V0B7 FCH2011V1GM	1787575732 1787576102	1787575732 SNTP 1787576102 SNTP	SNTC 24 SNTC 24	01-Apr-2022 01-Apr-2022		1 \$639.00 1 \$639.00	22.50%	
9 BE7M-M4-K9 7 BE7M-M4-K9	^Cisco Business Edition 7000M Svr (M4), Export Restricted SW ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH2011V1HK FCH2011V1HL	1787576464 1787576818	1787576464 SNTP 1787576818 SNTP	SNTC 24 SNTC 24	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$639.00 1 \$639.00	⊣ ⊦	
5 C1-WSC3850-12X48UL 1 ASA5545-K8	^Cisco ONE Catalyst 3850 48Port (12mGig+36Gig) UPoE LAN Base ^ASA 5545-X with SW, 8GE Data, 1GE Mgmt, AC, DES	FCW2020F05F FGL1750411U	1807789603 1830856188	1807789603 SW 1830856188 SNT	SNTC NC SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$859.7° 1 \$2,909.4°	⊣ ⊦	\$? \$
ASA-IC-6GE-CU-C B IE-2000-16TC-G-L	^ASA 5545-X/5555-X Interface Card 6-port 10/100/1000, RJ-45 IE2000 with 16FE Copper, 2GE SFP/T and 2FE SFP (Lan Lite)	FTX2319W0D2 FDO2042T0CL	5365215904 1852115224	1830856188 SNT 1852115224 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$714.00 1 \$244.00	27.89%	\$
9 WS-C3650-24PS-E 5 UCSC-C240-M4S2=	Cisco Catalyst 3650 24 Port PoE 4x1G Uplink IP Services ^UCS C240 M4 SFF 16 HD w/o CPU,mem,HD,PCle,PS,rail w/expndr	FDO2041E079 FCH2048V1X9	5064716280 5072926345	5064716280 SNT 5072926345 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$821.93 1 \$536.00	27.89%	\$.
3 WS-C3850-12X48U-L	^Cisco Catalyst 3850 48 Port (12 mGig+36 Gig) UPoE LAN Base	FCW2049F077	5073937615	5073937615 SW	SNTC NC	01-Apr-2022	31-Mar-2027	1 \$854.59	27.89%	\$2
0 WS-C3850-24XU-L 9 WS-C3850-48U-E	^Cisco Catalyst 3850 24 mGig Port UPOE LAN Base	FCW2051D03G FCW2052D0U0	5075837010 5085435928	5075837010 SW 5085435928 SNT	SNTC NC SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$853.9i 1 \$1,738.5i	27.89%	\$2 \$4
7 WS-C4503-E 7 WS-C3650-48FD-E	Cat4500 E-Series 3-Slot Chassis, fan, no ps Cisco Catalyst 3650 48 Port Full PoE 2x10G Uplink IPServices	FXS2049Q1QC FDO2051Z01P	5086205006 5087071056	5086205006 SNT 5087071056 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$2,215.40 1 \$1,663.00	27.89%	\$.
3 ASA5516-FTD-K9 6 ASA5516-FTD-K9	ASA 5516-X with Firepower Threat Defense, 8GE, AC ASA 5516-X with Firepower Threat Defense, 8GE, AC	JMX2105Y10F JMX2105Y10T	5087417737 5087417742	5087417737 SW 5087417742 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$605.00 1 \$605.00	27.89%	\$: \$:
9 ASA5516-FTD-K9 2 ASA5516-FTD-K9	ASA 5516-X with Firepower Threat Defense, 8GE, AC ASA 5516-X with Firepower Threat Defense, 8GE, AC	JMX2105Y105 JMX2105Y0ZZ	5087417743 5087417746	5087417743 SW 5087417746 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$605.00 1 \$605.00	⊣ ⊦	\$: \$:
5 ASA5516-FTD-K9 8 ASA5516-FTD-K9	ASA 5516-X with Firepower Threat Defense, 8GE, AC ASA 5516-X with Firepower Threat Defense, 8GE, AC	JMX2105Y0ZY JMX2105Y100	5087417748 5087417750	5087417748 SW 5087417750 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$605.00 1 \$605.00	⊣ ⊦	\$: \$:
1 ASA5516-FTD-K9 4 ASA5516-FTD-K9	ASA 5516-X with Firepower Threat Defense, 8GE, AC ASA 5516-X with Firepower Threat Defense, 8GE, AC	JMX2105Y104 JMX2105Y10E	5087417754 5087417757	5087417754 SW 5087417757 SW	SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$605.00 1 \$605.00	⊣ ⊦	\$: \$:
7 IE-2000-8TC-L 9 WS-C2960X-24TS-L	IE2000 with 8FE Copper ports and 2FE Combo (Lan Lite) Catalyst 2960-X 24 GigE, 4 x 1G SFP, LAN Base	FDO2048T0JH FCW2109A503	5088363626 5099029979	5088363626 SNT 5099029979 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$136.93 1 \$188.2	⊣ ⊦	
1 WS-C3850-24U-E 9 N6004-B-24Q	^Cisco Catalyst 3850 24 Port UPOE IP Services ^Nexus 6004 EF chassis 24x40GE Ports/FCoE Bundle; 6PS,4 FAN	FOC2114U0JJ FOC2052R1TR	5109031087 5125901535	5109031087 SNT 5125901535 SW	SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$934.11 1 \$4,608.00	27.89%	\$:
2 ISR4331-SEC/K9	Cisco ISR 4331 Sec bundle w/SEC license	FLM2123V0UL	5126753069	5126753069 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$512.9	27.89%	\$
1 ASA5500X-SSD120= 2 ASA5516-FPWR-K9	ASA 5512-X through 5555-X 120 GB MLC SED SSD (Spare) ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	MSA20250LZY JMX2140G0B7	5152696374 5163061016	5152696374 SNT 5163061016 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$75.00 1 \$745.00	27.89%	\$
8 ASA5516-FPWR-K9 4 WS-C2960X-24PS-L	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES Catalyst 2960-X 24 GigE PoE 370W, 4 x 1G SFP, LAN Base	JMX2140G0AX FOC2137T1U3	5163061029 5163830480	5163061029 SNT 5163830480 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$745.00 1 \$251.9	27.89%	\$:
6 DS-C9706 2 C1F1PMDS9700K9	MDS 9706 Chassis No Power Supplies, Fans Included Cisco ONE Foundation Perpetual MDS 9700	FXS2130Q735	5166622694 5166622759	5166622694 SSSNT 5166622694 ECMUS	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$3,569.00 1 \$9,250.00	⊣ ⊦	\$1 \$3
8 DS-C9706 6 C1F1PMDS9700K9	MDS 9706 Chassis No Power Supplies, Fans Included Cisco ONE Foundation Perpetual MDS 9700	FXS2130Q738	5166622695 5166622761	5166622695 SSSNT 5166622695 ECMUS	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$3,569.00 1 \$9,250.00	⊣ ⊢	\$1 \$3
0 DS-X9334-K9 1 DS-X9334-K9	Cisco MDS 9000 Family 24/10-Port SAN Extension Module Cisco MDS 9000 Family 24/10-Port SAN Extension Module	JAE21200D2P JAE213807X1	5166622698 5166622699	5166622698 SNT 5166622699 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$5,750.00 1 \$5,750.00	⊣ ⊦	\$2 \$2
DS-X9648-1536K9 DS-X9648-1536K9	MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module	JAE213101MS JAE213101QG	5166622701 5166622704	5166622701 SNT 5166622704 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,800.00 1 \$2,800.00	⊣ ⊦	\$1 \$1
DS-X97-SF1-K9 DS-X97-SF1-K9	MDS 9700 Series Supervisor-1 MDS 9700 Series Supervisor-1	JAE21340CDY JAE21340CG1	5166622742 5166622743	5166622742 SNT 5166622743 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$868.00 1 \$868.00	27.89%	\$
6 DS-X97-SF1-K9 7 DS-X97-SF1-K9	MDS 9700 Series Supervisor-1 MDS 9700 Series Supervisor-1	JAE21340CE4 JAE21340CEP	5166622744 5166622745	5166622744 SNT 5166622745 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$868.00 1 \$868.00	27.89%	\$
8 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module	JAE2134045H	5166622746	5166622746 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$160.00	27.89%	
9 DS-X9706-FAB1 0 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric 1 Module	JAE2134046R JAE2134048U	5166622747 5166622748	5166622747 SNT 5166622748 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
DS-X9706-FAB1 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE21340463 JAE2134048J	5166622749 5166622750	5166622749 SNT 5166622750 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
DS-X9706-FAB1 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE2134045V JAE213404AU	5166622751 5166622752	5166622751 SNT 5166622752 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
DS-X9706-FAB1 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE2134047C JAE2134045Q	5166622753 5166622754	5166622753 SNT 5166622754 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$160.00	⊣ ⊦	
7 DS-X9706-FAB1 8 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE213404AR JAE213404A4	5166622755 5166622756	5166622755 SNT 5166622756 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
9 DS-X9706-FAB1 0 DS-C9706	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Chassis No Power Supplies, Fans Included	JAE2134048D FXS2134Q01V	5166622757 5173910640	5166622757 SNT 5173910640 SSSNT	SNTC 8X SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$3,569.00	27.89%	\$1
5 C1F1PMDS9700K9 2 DS-C9706	Cisco ONE Foundation Perpetual MDS 9700 MDS 9706 Chassis No Power Supplies, Fans Included	FXS2134Q01V	5173910640 5173910873 5173910641	5173910640 ECMUS 5173910641 SSSNT	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$9,250.00 1 \$3,569.00	27.89%	\$3 \$1
1 C1F1PMDS9700K9	Cisco ONE Foundation Perpetual MDS 9700		5173910878	5173910641 ECMUS	SOLN SU	01-Apr-2022	31-Mar-2027	1 \$9,250.0	27.89%	\$3
4 DS-X9334-K9 5 DS-X9334-K9	Cisco MDS 9000 Family 24/10-Port SAN Extension Module Cisco MDS 9000 Family 24/10-Port SAN Extension Module	JAE213807XJ JAE213807WZ	5173910646 5173910649	5173910646 SNT 5173910649 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022		1 \$5,750.00 1 \$5,750.00	27.89%	\$2 \$2
6 DS-X9648-1536K9 7 DS-X9648-1536K9	MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module	JAE21320066 JAE2132005V	5173910663 5173910670	5173910663 SNT 5173910670 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$2,800.00 1 \$2,800.00	27.89%	\$1 \$1
8 DS-X97-SF1-K9 9 DS-X97-SF1-K9	MDS 9700 Series Supervisor-1 MDS 9700 Series Supervisor-1	JAE21360AQ2 JAE21340CDX	5173910740 5173910751	5173910740 SNT 5173910751 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$868.00 1 \$868.00	⊣ ⊦	\$ \$
0 DS-X97-SF1-K9 1 DS-X97-SF1-K9	MDS 9700 Series Supervisor-1 MDS 9700 Series Supervisor-1	JAE2136099U JAE213609AH	5173910759 5173910768	5173910759 SNT 5173910768 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$868.00 1 \$868.00	27.89%	\$:
2 DS-X9706-FAB1 3 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE2143080A JAE21340494	5173910708 5173910798 5173910805	5173910798 SNT 5173910805 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
4 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module	JAE2134045M	5173910813	5173910813 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$160.00	27.89%	
5 DS-X9706-FAB1 6 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE21430830 JAE2143081C	5173910821 5173910827	5173910821 SNT 5173910827 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1 \$160.00 1 \$160.00	27.89%	
7 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module	JAE212902R7	5173910833	5173910833 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$160.00	27.89%	

1409 DS-X9706-FAB1 1410 DS-X9706-FAB1 1411 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE2143081U JAE213404B5 JAE212902NY	5173910844 5173910849 5173910855	5173910844 SNT 5173910849 SNT 5173910855 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$160.00 1 \$160.00
1412 DS-X9706-FAB1 1413 DS-X9706-FAB1	MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module MDS 9706 Crossbar Switching Fabric-1 Module	JAE2143082T JAE21340474	5173910862 5173910868	5173910862 SNT 5173910868 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$160.00 1 \$160.00
1414 BE7M-M4-K9 1442 BE7M-M4-K9	^Cisco Business Edition 7000M Svr (M4), Export Restricted SW ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH2052V2HZ FCH2052V2HU	5190840586 5193988529	5190840586 SNT 5193988529 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$424.00 1 \$424.00
1470 CP-DX80-K9= 1472 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N2YF FOC2202N33F	5198783501 5198783550	5198783501 SNT 5198783550 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1474 CP-DX80-K9= 1476 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N31L FOC2202N340	5198783574 5198783586	5198783574 SNT 5198783586 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1478 CP-DX80-K9= 1480 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N2ZR FOC2202N3AR	5198783604 5198783617	5198783604 SNT 5198783617 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1482 CP-DX80-K9= 1484 CP-DX80-K9= 1486 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80 Cisco Webex DX80	FOC2202N2KZ FOC2147NAPB FOC2202N36L	5198783639 5198783654 5198783672	5198783639 SNT 5198783654 SNT 5198783672 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19 1 \$431.19
1488 CP-DX80-K9= 1490 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N38N FOC2148NF4H	5198783689 5198783708	5198783689 SNT 5198783708 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1492 CP-DX80-K9= 1494 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N2XQ FOC2202N39Y	5198783727 5198783744	5198783727 SNT 5198783744 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1496 CP-DX80-K9= 1498 CP-DX80-K9=	Cisco Webex DX80 Cisco Webex DX80	FOC2202N372 FOC2202N37B	5198783760 5198783837	5198783760 SNT 5198783837 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$431.19 1 \$431.19
1500 EXPWY-E-BDL-K9 1528 EXPWY-E-BDL-K9	^Expressway-E Appliance Bundle ^Expressway-E Appliance Bundle	FCH2223V01U FCH2222V3YX	5246009954 5246009955	5246009954 SSSNT 5246009955 SSSNT	SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,061.00 1 \$1,061.00
1600 C1-N9K-C93180LC-EX 1610 C1-N9K-C93180LC-EX 1620 C1-N9K-C93180LC-EX	^^Cisco ONE Nexus 9300 Series, 24p 40/50G and 6p 100G ^^Cisco ONE Nexus 9300 Series, 24p 40/50G and 6p 100G ^^Cisco ONE Nexus 9300 Series, 24p 40/50G and 6p 100G	FDO22210HX7 FDO22270VJU FDO22210J9X	5255172680 5255172682 5255172685	5255172680 SW 5255172682 SW 5255172685 SW	SNTC NC SNTC NC	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$764.00 1 \$764.00 1 \$764.00
1631 N9K-C9504-B3-E 1644 NXOS-AD-M4	Nexus 9504 chassis bundle with 1Sup, 3PS, 2SC, 4 FM-E, 3Fan NX-OS Advantage License for Nexus Modular 4 Slot	FOX2223PAV6 2ED2UOYY7OZ	5259183419 5259183444	5259183419 SW 5259183419 ECMU	SNTC NC SWSS	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$4,070.67 1 \$7,685.00
1658 N7702-S2E-40G-P1 1673 N7702-S2E-40G-P1	Nexus 7702 40G Promotional Bundle Nexus 7702 40G Promotional Bundle	JPG213000U9 JPG221800F4	5261514153 5261514156	5261514153 SNT 5261514156 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$5,386.00 1 \$5,386.00
1688 C9500-32QC-A 1691 C9500-DNA-32QC-A	Catalyst 9500 32-port 40/100G only, Advantage C9500 DNA Advantage, Term License	CAT2209L0LN	5266327754 5266327775	5266327754 SSSNT 5266327754 SSTCM	SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,454.00 1 \$4,337.96
1696 HX220C-M5SX 1721 HX220C-M5SX	Cisco HyperFlex HX220c M5 Node Cisco HyperFlex HX220c M5 Node	WZP222514Z3 WZP222514ZS	5268173333 5268173338	5268173333 SNT 5268173338 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,274.47 1 \$1,274.47
1746 HX220C-M5SX 1771 SPARK-BOARD55-K9	Cisco HyperFlex HX220c M5 Node ^Cisco Spark Board 55	WZP222514ZE FGL2235601E	5268173339 5268747267	5268173339 SNT 5268747267 ECDN	ESS WITI	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,274.47 1 \$855.36
1777 SPARK-BOARD55-K9 1783 SPARK-BOARD55-K9 1789 SPARK-BOARD55-K9	^Cisco Spark Board 55 ^Cisco Spark Board 55 ^Cisco Spark Board 55	FGL2235601K FGL2235601G FGL2235601D	5268747269 5268747270	5268747268 ECDN 5268747269 ECDN 5268747270 ECDN	ESS WITI ESS WITI	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$855.36 1 \$855.36 1 \$855.36
1796 FS-VMW-10-SW-K9 1797 SPARK-BOARD55-K9	Cisco Firepower Management Center,(VMWare) for 10 devices ^Cisco Spark Board 55	FGL22456145	5286147970 5292425012	5286147970 ECMU 5292425012 SSSNT	SWSS SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	2 \$414.00 1 \$1,045.00
1803 SPARK-BOARD55-K9 1809 PWR-C45-6000ACV	^Cisco Spark Board 55 Catalyst 4500 6000W AC dual input Power Supply (Data + PoE)	FGL22456146 ART1907F6D4	5292425013 5296359458	5292425013 SSSNT 5296359458 SW	SOLN SU SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,045.00 1 \$0.00
1810 C9300-48T-E 1811 C9300-DNA-E-48	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses	FOC2247Q0PX stance number to	5302153800 5302154321	5302153800 SNT 5302153800 SSTC	SOLN SU re Subscr	01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40
1820 C9300-48T-E 1821 C9300-DNA-E-48	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Naturally Essentials	FOC2247Q0PS	5302153820 5302154335	5302153820 SNT 5302153820 SSTC	re Subscr	01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40
1830 C9300-48T-E 1831 C9300-DNA-E-48 1840 C9300-48T-E	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials	FCW2247C0PA stance number to FOC2247Q0PR	5302153832 5302154357 5302153838	5302153832 SNT 5302153832 SSTC 5302153838 SNT	re Subscr SOLN SU	01-Apr-2022 17-Feb-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40 1 \$624.66
1841 C9300-DNA-E-48 1850 C9300-48T-E	C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials	stance number to	5302153838 5302154370 5302153856	5302153838 SSTC 5302153856 SNT	re Subscr SOLN SU	17-Feb-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$442.40 1 \$624.66
1851 C9300-DNA-E-48 1860 C9300-48T-E	C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials	stance number to FOC2247Z0NE	5302154383 5302153875	5302153856 SSTC 5302153875 SNT	re Subscr SOLN SU	17-Feb-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$442.40 1 \$624.66
1861 C9300-DNA-E-48 1870 C9300-48T-E	C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials	stance number to FCW2247C0PJ	5302154395 5302153995	5302153875 SSTC 5302153995 SNT	re Subscr SOLN SU	17-Feb-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$442.40 1 \$624.66
1871 C9300-DNA-E-48 1880 C9300-48T-E	C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials	FOC2247Q0PV	5302154541 5302154016	5302153995 SSTC 5302154016 SNT	re Subscr SOLN SU	17-Feb-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$442.40 1 \$624.66
1881 C9300-DNA-E-48 1890 C9300-48T-E 1891 C9300-DNA-E-48	C9300 DNA Essentials, 48-Port Term Licenses Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses	FCW2247D0MQ	5302154554 5302154028 5302154570	5302154016 SSTC 5302154028 SNT 5302154028 SSTC	re Subscr SOLN SU re Subscr	17-Feb-2022 01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$442.40 1 \$624.66 1 \$442.40
1900 C9300-DNA-E-48 1901 C9300-DNA-E-48	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses	FCW2247E0M8	5302154057 5302154581	5302154057 SNT 5302154057 SSTC	SOLN SU	01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40
1910 C9300-48T-E 1911 C9300-DNA-E-48	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses	FCW2247C0PL	5302154089 5302154600	5302154089 SNT 5302154089 SSTC	SOLN SU re Subscr	01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40
1920 C9300-48T-E 1921 C9300-DNA-E-48	Catalyst 9300 48-port data only, Network Essentials C9300 DNA Essentials, 48-Port Term Licenses	FCW2247E0ME stance number to	5302154107 5302154609	5302154107 SNT 5302154107 SSTC	SOLN SU re Subscr	01-Apr-2022 17-Feb-2022	31-Mar-2027 31-Mar-2027	1 \$624.66 1 \$442.40
1930 C881-K9 1938 C881-K9 1946 C881-K9	Cisco 880 Series Integrated Services Routers Cisco 880 Series Integrated Services Routers Cisco 880 Series Integrated Services Routers	FJC2303L1QX FJC2303L1QU FJC2303L1QW	5313358027 5313358050 5313358071	5313358027 SSSNT 5313358050 SNT 5313358071 SNT	SOLN SU SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$98.16 1 \$88.59 1 \$88.59
1954 C881-K9 1962 C881-K9	Cisco 880 Series Integrated Services Routers Cisco 880 Series Integrated Services Routers	FJC2303L1QV FJC2303L1QY	5313358104 5313358116	5313358071 SNT 5313358104 SNT 5313358116 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$88.59 1 \$88.59
1970 UCSB-B200-M5-U 2001 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230503C3 FLM230503BR	5317400454 5317400484	5317400454 SNT 5317400484 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2032 UCSB-B200-M5-U 2063 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM23050136 FLM230503BN	5317400505 5317400525	5317400505 SNT 5317400525 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2158 UCSB-B200-M5-U 2188 UCSB-B200-M5-U 2218 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230303GB FLM2303000B FLM224600DC	5317609414 5317609431 5317609441	5317609414 SNT 5317609431 SNT 5317609441 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2248 UCSB-B200-M5-U 2278 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM2303033H FLM230503BP	5317609456 5317609468	5317609456 SNT 5317609468 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2308 UCSB-B200-M5-U 2338 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM2305013H FLM23050133	5317609482 5317609492	5317609482 SNT 5317609492 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2368 UCSB-B200-M5-U 2398 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230200T0 FLM23050138	5317609505 5317609515	5317609505 SNT 5317609515 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2428 UCSB-B200-M5-U 2458 UCSB-B200-M5-U 2488 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM2305013A FLM230503CD FLM2302027F	5317609525 5317609543 5317609551	5317609525 SNT 5317609543 SNT 5317609551 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2518 UCSB-B200-M5-U 2548 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230503C4 FLM2305012M	5317609531 5317609564 5317609577	5317609564 SNT 5317609577 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2578 UCSB-B200-M5-U 2608 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230104HU FLM230104JD	5317609588 5317609600	5317609588 SNT 5317609600 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2638 UCSB-B200-M5-U 2668 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230503C0 FLM225203PQ	5317609613 5317609623	5317609613 SNT 5317609623 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2698 UCSB-B200-M5-U 2728 UCSB-B200-M5-U 2758 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM22410BD7 FLM230503B7 FLM230503B9	5317609637 5317609650 5317609662	5317609637 SNT 5317609650 SNT 5317609662 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2788 UCSB-B200-M5-U 2818 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230300UM FLM230503BG	5317609662 5317609679 5317609696	5317609662 SNT 5317609679 SNT 5317609696 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
2848 UCSB-B200-M5-U 2878 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM224707DK FLM230104FB	5317609711 5317609725	5317609731 SNT 5317609725 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2908 UCSB-B200-M5-U 2938 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM23050132 FLM230105J0	5317609738 5317609751	5317609738 SNT 5317609751 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
2968 UCSB-B200-M5-U 2998 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230503BJ FLM2305012T	5317609768 5317609785	5317609768 SNT 5317609785 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
3028 UCSB-B200-M5-U 3058 UCSB-B200-M5-U 3088 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230503BK FLM224308B7 FLM2305012L	5317609799 5317609812 5317609825	5317609799 SNT 5317609812 SNT 5317609825 SNT	SNTC 8X SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
3118 UCSB-B200-M5-U 3148 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM230300AC FLM230503C5	5317609843 5317609853	5317609843 SNT 5317609853 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
3178 UCSB-B200-M5-U 3208 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM2305012R FLM23050139	5317609866 5317609879	5317609866 SNT 5317609879 SNT	SNTC 8X SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
3238 UCSB-B200-M5-U 3268 UCSB-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM2302076J FLM230503BF	5317609913 5317609929	5317609913 SNT 5317609929 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
3298 UCSB-B200-M5-U 3328 UCS-SP-5108-AC 3353 UCS-SP-5108-AC	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FLM230503BT FOX2247P1NY FOX2246PFJL	5317609942 5317653360 5317653361	5317609942 SNT 5317653360 SSSNT 5317653361 SSSNT	SNTC 8X SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$397.08 1 \$397.08
3378 UCS-SP-5108-AC 3378 UCS-SP-5108-AC 3403 UCS-SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FOX2245PFJL FOX2245P64K FOX2246P4GY	5317653361 5317653362 5317653363	5317653361 SSSNT 5317653362 SSSNT 5317653363 SSSNT	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08 1 \$397.08
3428 UCS-SP-5108-AC 3453 UCS-SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FOX2246PFJ3	5317653364 5317653365	5317653364 SSSNT 5317653365 SSSNT	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08
3478 UCS-SP-5108-AC 3503 UCS-SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FOX2245P1WD FOX2245P1K3	5317653366 5317653367	5317653366 SSSNT 5317653367 SSSNT	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08
3528 UCS-SP-5108-AC 3553 UCS-SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC3 Chassis w/2208 IO, 4x SFP cable 3m	FOX2248PC75 FOX2247P3ZU	5317653368 5317653369	5317653368 SSSNT 5317653369 SSSNT	SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08
3578 UCS-SP-5108-AC 3603 UCS-SP-5108-AC 3628 UCS-SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FOX2248P0XJ FOX2249P79W FOX2246PFKW	5317653370 5317653371 5317653372	5317653370 SSSNT 5317653371 SSSNT 5317653372 SSSNT	SOLN SU SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08 1 \$397.08
3020 0C3-3Y-31U8-AC	TOCS ST. SCIECT STUD ACZ CHASSIS W/ZZUS IU, 4X SFP CADIE 3M	FUAZZ40PFKW	201/0033/2	221/0222/1222NI	DOFIN 20	01-Wht-5055	21-IVIdI-707/	ا80./95\$

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	-SP-5108-AC -SP-5108-AC	UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m UCS SP Select 5108 AC2 Chassis w/2208 IO, 4x SFP cable 3m	FOX2245P63W FOX2246P4GA	5317653373 5317653374	5317653373 SS 5317653374 SS		01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$397.08 1 \$397.08
3703 C930	00-48U-E	Catalyst 9300 48-port UPOE, Network Essentials Nexus 9504 chassis bundle with 1Sup, 3PS, 2SC, 4 FM-E, 3Fan	FCW2248BHX1 FOX2248PLG2	5317657361 5318353754	5317657361 SN 5318353754 SV	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$4,070.67
	N5K-C5672UP	NX-OS Advantage License for Nexus Modular 4 Slot Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+	00BWH1JG1E7 FOC2235R2YN	5318354031 5318755013	5318353754 EC 5318755013 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$7,685.00 1 \$1,898.30
3758 C1F2	2PNEX56721K9	Cisco ONE Advanced Perpetual Nexus 5672 Cisco ONE Foundation Perpetual Nexus 5672 Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+	FOC2235R32M	5318755086 5318755099 5318755025	5318755013 EC 5318755013 EC 5318755025 SS	CMUS SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$1,900.00 1 \$2,280.00 1 \$1,898.30
3764 C1F2	2PNEX56721K9	Cisco ONE Foundation Perpetual Nexus 5672 Cisco ONE Advanced Perpetual Nexus 5672	r occession.	5318755104 5318755089	5318755025 EC 5318755025 EC	CMUS SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,280.00 1 \$1,900.00
3784 C1F2	2PNEX56721K9	Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+ Cisco ONE Foundation Perpetual Nexus 5672	FOC2235R32A	5318755029 5318755106	5318755029 SS 5318755029 EC	CMUS SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,898.30 1 \$2,280.00
3801 C1-N	N5K-C5672UP	Cisco ONE Advanced Perpetual Nexus 5672 Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+	FOC2235R2U1	5318755091 5318755030	5318755029 EC 5318755030 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,900.00 1 \$1,898.30
3813 C1A2	2PNEX56721K9	Cisco ONE Foundation Perpetual Nexus 5672 Cisco ONE Advanced Perpetual Nexus 5672 Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+	FOC2235R32N	5318755108 5318755093 5318755033	5318755030 EC 5318755030 EC 5318755033 SS	CMUS SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$2,280.00 1 \$1,900.00 1 \$1,898.30
3824 C1F2	2PNEX56721K9	Cisco ONE Foundation Perpetual Nexus 5672 Cisco ONE Advanced Perpetual Nexus 5672	TOC2233K32N	5318755035 5318755110 5318755095	5318755033 EC 5318755033 EC	CMUS SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,898.30 1 \$2,280.00 1 \$1,900.00
3843 UCS- 3859 UCS-	-SP-F16454	(Not sold standalone) UCS 6454 FI (Not sold standalone) UCS 6454 FI	FDO224925XE FDO2249269S	5319284375 5319284398	5319284375 SS 5319284398 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,339.00 1 \$2,339.00
3875 UCS- 3891 UCS-	-SP-F16454	(Not sold standalone) UCS 6454 FI (Not sold standalone) UCS 6454 FI	FDO224926HM FDO224926BX	5319284407 5319284415	5319284407 SS 5319284415 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,339.00 1 \$2,339.00
3916 NXO	S-AD-XF	2xNexus 9336C-FX2 w/ 8x 100G Optics NX-OS Advantage License for Nexus 9300 (10G+) Platforms Nexus 9336C-FX2 bundle PID	SXWWLYSPIVV FDO23031G8A	5320146294 5320147147 5320146508	5320146294 SS 5320146294 EC 5320146294 SS	CMUS SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$0.00 1 \$1,685.00 1 \$1,757.00
3927 N9K-	-C9336C-FX2-B	Nexus 9336C-FX2 bundle PID 2xNexus 9336C-FX2 w/ 8x 100G Optics	FD023031G4G	5320146365 5320146334	5320146294 SS 5320146294 SS 5320146334 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,757.00 1 \$1,757.00 1 \$0.00
3942 NXO	S-AD-XF	NX-OS Advantage License for Nexus 9300 (10G+) Platforms Nexus 9336C-FX2 bundle PID	TEYMH8XEA7N FDO23031G5E	5320147155 5320146485	5320146334 EC 5320146334 SS	CMUS SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,685.00 1 \$1,757.00
3967 CS-B	BOARD70S-M-K9	Nexus 9336C-FX2 bundle PID ^Cisco Webex Board 70S (MSRP)	FDO23031G4C FGL2307408K	5320146540 5323060707	5320146334 SS 5323060707 EC	CDN ESS WIT	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,757.00 1 \$2,645.87
3977 SLAS	SR1-AES	Cisco ASR1001-HX System,4x10GE+4x1GE,2xP/S, optional crypto Cisco ASR 1000 Advanced Enterprise Services License	TTM2305003P	5323570591 5323570852	5323570591 SV 5323570591 SV	W SNTC NC	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$5,536.00 1 \$897.00
3992 CS-K	(IT-MINI-K9	Cisco ASR1001-HX 16GB DRAM Room Kit Mini with microphone array, speakers and Navigator Top Level SKU for 5520 AP Adder Licenses	STP22510037 FOC2311PYDP	5323570960 5333515149 5338368628	5323570591 SV 5333515149 SS 5338368628 EC	SSNT SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$641.00 1 \$395.85 1 \$0.00
4004 LIC-C	CT5520-1A	Cisco 5520 Wireless Controller 1 AP Adder License Top Level SKU for 5520 AP Adder Licenses		5338368630 5338374844	5338368628 EC 5338374844 EC	CMU SWSS	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$0.00 150 \$27.00 1 \$0.00
4006 LIC-C 4027 C930	CT5520-1A 00-DNA-E-48=	Cisco 5520 Wireless Controller 1 AP Adder License C9300 DNA Essentials, 48-Port Term Licenses Spare		5338374845 5346960497	5338374844 EC 5346960497 SS	CMU SWSS STC Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	150 \$27.00 1 \$401.46
4052 DNA	A-AIR-RENEW	2 x C9500-48Y4C, 8 x QSFP-40/100-SRBD CISCO DNA for Wireless - CHOOSE ONLY QTY 1 HERE	JMX2314105K	5363274065 5372548225	5363274065 SN 5372548225 SS	STC Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$3,491.00 1 \$0.00
	000-2C2F-K9	Wireless Cisco DNA On-Prem Advantage, Term Lic Industrial Compute appliance Cisco 900MHz LoRaWAN Gateway, IP67, 16-Channels, TDOA	FCH2307Y028	5372548227 5374547208 5378005259	5372548225 SS 5374547208 SN 5378005259 SS	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$198.94 1 \$275.02
4065 IE330	00-DNA-E=	Cisco 900MHz LoRaWAN Gateway, IP67, 16-Channels, TDOA Cisco DNA Essentials license for IE3300 Series 802.11ac W2 Low-Profile Outdoor AP, Internal Ant, B Reg Dom.	FOC23195XER FJC2331F030	5378005259 5378797224 5380055399	5378005259 SS 5378797224 SS 5380055399 SN	STC Software	01-Apr-2022 07-Sep-2022 01-Apr-2022	31-Mar-2027 06-Sep-2027 31-Mar-2027	1 \$361.86 3 \$144.10 1 \$77.98
4070 IR510	.0-OFDM-FCC/K9	IR510 915Mhz WPAN router w/ 2 serial,1 FE LAN WPAN Dipole Antenna 863-928MHz, Direct Connect,1.5dBi gain	FCW23170HJZ	5380834642 5380834645	5380834642 SS 5380834642 SS	SSNT SOLN SU	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$170.46 1 \$8.00
4077 IE-33	300-8P2S-E	C9300 48P, DNA Adv Lic, Prime Infra LF+AS, ThousandEyes Catalyst IE3300 with 8 GE PoE+ and 2 GE SFP, Modular, NE	FOC2331V07F	5380867256 5380951414	5380867256 SS 5380951414 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	2 \$1,351.36 1 \$701.84
4079 IE-33	300-8P2S-E	Catalyst IE3300 with 8 GE PoE+ and 2 GE SFP, Modular, NE Catalyst IE3300 with 8 GE PoE+ and 2 GE SFP, Modular, NE	FOC2331V07B FOC2331V04P	5380951425 5380951429	5380951425 SN 5380951429 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$701.84 1 \$701.84
4094 UCSE	B-B200-M5-U	CGR1240 w/ 4 module slots,2 GE,2 serial,4 FE LAN,Wi-Fi,GPS UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FTX2332G00P FLM233103M6 FLM233103PN	5381662866 5384939915 5384939924	5381662866 SS 5384939915 SN 5384939924 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$1,070.43 1 \$350.00 1 \$350.00
4144 UCSE	B-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM233103PN FLM233103Q9 FLM233103JC	5384948597 5384948610	5384948597 SN 5384948610 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4194 UCSE	B-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM233105DU FLM233103HC	5384951709 5384951726	5384951709 SN 5384951726 SN	NT SNTC 8X	01-Apr-2022	31-Mar-2027	1 \$350.00 1 \$350.00
4251 UCSE		UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM233105F3 FLM233105E9	5384951732 5384951744	5384951732 SN 5384951744 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4289 UCSE	B-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM233103QU FLM23300BAT	5384951754 5384951762	5384951754 SN 5384951762 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4327 UCSE	B-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FLM233105F9 FLM23310EP7 FLM233105EA	5384951777 5384951790 5384951799	5384951777 SN 5384951790 SN 5384951799 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
4365 UCSE	B-B200-M5-U	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG) Catalyst 9400 Series 10 slot,Sup, 2xC9400-LC-48U, DNA-A LIC	FLM2331011T FXS2330Q1KC	5384951813 5394346899	5384951813 SN 5394346899 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$2,116.00
4406 UCSE	B-B200-M5=	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz UCS B200 M5 Blade w/o CPU, mem, HDD, mezz	FLM234901MM FLM234901P2	5427518125 5427518162	5427518125 SN 5427518162 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4409 UCSE		UCS B200 M5 Blade w/o CPU, mem, HDD, mezz UCS B200 M5 Blade w/o CPU, mem, HDD, mezz	FLM234901TQ FLM234901NP	5427518174 5427518192	5427518174 SN 5427518192 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4411 UCSE	B-B200-M5= B-B200-M5=	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz UCS B200 M5 Blade w/o CPU, mem, HDD, mezz	FLM234901JE FLM234901RP	5427518205 5427518215	5427518205 SN 5427518215 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00
4413 UCSE	B-B200-M5= B-B200-M5= B-B200-M5=	UCS B200 M5 Blade w/o CPU, mem, HDD, mezz UCS B200 M5 Blade w/o CPU, mem, HDD, mezz UCS B200 M5 Blade w/o CPU, mem, HDD, mezz	FLM234901N8 FLM234901RF FLM234901Q3	5427518228 5427518241 5427518258	5427518228 SN 5427518241 SN 5427518258 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$350.00 1 \$350.00 1 \$350.00
4415 C1-N	N5K-C5672UP	Cisco OneNexus5672UP 1RU,32x10G SFP+,16pxUP SFP+,6x40G QSFP+ Cisco ONE Advanced Perpetual Nexus 5672	FOC1921R22Y	5436886184 5318755088	5436886184 SS 5436886184 EC	SSNT SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$1,898.30 1 \$1,900.00
4433 C1F2		Cisco ONE Foundation Perpetual Nexus 5672 UCS B200 M5 Blade w/o CPU, mem, HDD, mezz (UPG)	FCH22237DZ3	5318755101 5436950339	5436886184 EC 5436950339 SN	CMUS SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$2,280.00 1 \$350.00
4471 AIR-A	AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC233100X8 KWC233100WA	5443053911 5443053912	5443053911 SN 5443053912 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$49.00 1 \$49.00
4481 AIR-A	AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator	KWC233100YP KWC233100WP FGL2414L7AZ	5443053913 5443053915 5451782773	5443053913 SN 5443053915 SN 5451782773 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$49.00 1 \$49.00 1 \$1,610.74
	(ITPLUS-K9	Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Medium Secure Network Server for ISE Applications	FGL2414L76D WMP240800XZ	5451782773 5451782784 5454391127	5451782784 SN 5454391127 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$1,610.74 1 \$1,610.74 1 \$5,034.32
4523 SNS- 4542 SNS-	-3655-K9 -3655-K9	Medium Secure Network Server for ISE Applications Medium Secure Network Server for ISE Applications	WMP24070065 WMP240800YR	5454391128 5454391129	5454391128 SN 5454391129 SN	NT SNTC 8X NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$5,034.32 1 \$5,034.32
4561 SNS- 4580 CS-KI	(ITPLUS-K9	Medium Secure Network Server for ISE Applications Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator	WMP2407005Y FGL2416L2MJ	5454391130 5455743599	5454391130 SN 5455743599 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$5,034.32 1 \$1,610.74
	(ITPLUS-K9	Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator	FGL2416L36V FGL2416L2C2 FGL2416L5DG	5455743768 5455744183 5455752814	5455743768 SN 5455744183 SN 5455752814 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$1,610.74 1 \$1,610.74 1 \$1,610.74
4616 C940		Cisco Catalyst 9400 Series 4 slot chassis Top Level SKU for 5520 AP Adder Licenses	FXS2349Q48F	5455752814 5461133833 5462118647	5455752814 SN 5461133833 SN 5462118647 EC	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$1,610.74 1 \$1,775.00 1 \$0.00
4630 LIC-C 4631 LIC-C	CT5520-1A CT5520-UPG	Cisco 5520 Wireless Controller 1 AP Adder License Top Level SKU for 5520 AP Adder Licenses		5462118678 5463055681	5462118647 EC 5463055681 EC	CMU SWSS	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	2 \$27.00 1 \$0.00
4633 C941	10R	Cisco 5520 Wireless Controller 1 AP Adder License Cisco Catalyst 9400 Series 10 slot chassis	FXS2411Q1XQ	5463055683 5463591843	5463055681 EC 5463591843 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	2 \$27.00 1 \$4,553.00
4656 AIR-A	AP1562E-B-K9	802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom. 802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom. 802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom.	FJC2418N03J FJC2414N09W FJC2421N022	5466620571 5466620721 5466620798	5466620571 SN 5466620721 SN 5466620798 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$82.51 1 \$82.51 1 \$82.51
4662 AIR-A	AP1562E-B-K9	802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom. 802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom. 802.11ac W2 Low-Profile Outdoor AP, External Ant, B Reg Dom.	FJC2421N022 FJC2417N07B FJC2421N01E	5466620798 5466620875 5466620910	5466620798 SN 5466620875 SN 5466620910 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$82.51 1 \$82.51 1 \$82.51
4668 C930 4680 C930	00-48U-A 00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D0SJ FOC2420W0TM	5468190674 5468190708	5468190674 SN 5468190708 SN	NT SNTC 8X NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23
4704 C930	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X14L FOC2420U0U5	5468190716 5468190724	5468190716 SN 5468190724 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23
4728 C930	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420G0V4 FCW2420G1BQ	5468190729 5468190735	5468190729 SN 5468190735 SN 5468190740 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23
4752 C930	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2403C17P FOC2420X038 FOC2420U14F	5468190740 5468190746 5468190752	5468190740 SN 5468190746 SN 5468190752 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23 1 \$823.23
	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420V14F FOC2420X19B FCW2416C0W9	5468190752 5468190758 5468190765	5468190758 SN 5468190765 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23 1 \$823.23
4800 C930	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X0UN FOC2420X0UY	5468190771 5468190776	5468190771 SN 5468190776 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23 1 \$823.23
4824 C930 4836 C930	00-48U-A 00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W0U1 FCW2420C0W2	5468190782 5468190789	5468190782 SN 5468190789 SN	NT SNTC 8X NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23
	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W0U2 FCW2420D0S9	5468190796 5468190802	5468190796 SN 5468190802 SN	NT SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23
4872 C930	00-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2403W1CV FOC2420U1BT	5468190808 5468190818	5468190808 SN 5468190818 SN		01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1 \$823.23 1 \$823.23

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4908 C9300-48U-A 4920 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D0SB FOC2420U14E	5468190832 5468190837	5468190832 SNT 5468190837 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
4932 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W0TV	5468190843	5468190843 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
4944 C9300-48U-A 4956 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420U0Q4 FOC2420U12C	5468190854 5468190859	5468190854 SNT 5468190859 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
4968 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420C0VX	5468190866	5468190866 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
4980 C9300-48U-A 4992 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420G0VB FCW2420C14G	5468190874 5468190882	5468190874 SNT 5468190882 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5004 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D0SA	5468190890	5468190890 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5016 C9300-48U-A 5028 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420C0W7 FOC2420X14T	5468190898 5468190908	5468190898 SNT 5468190908 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5040 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W12Q	5468190919	5468190919 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5052 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D0SK	5468190928	5468190928 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5064 C9300-48U-A 5076 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D0SV FCW2420G0V6	5468190934 5468190944	5468190934 SNT 5468190944 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5088 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420C0W4	5468190951	5468190951 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5100 C9300-48U-A 5112 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W0TY FOC2420W0TX	5468190961 5468190972	5468190961 SNT 5468190972 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5124 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X0US	5468190980	5468190980 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5136 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X0U3	5468190991	5468190991 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5148 C9300-48U-A 5160 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D172 FOC2420W111	5468191000 5468191011	5468191000 SNT 5468191011 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5172 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420C165	5468191021	5468191021 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5184 C9300-48U-A 5196 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X0UZ FOC2420U0TX	5468191030 5468191041	5468191030 SNT 5468191041 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5208 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X0V2	5468191055	5468191055 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5220 C9300-48U-A 5232 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420G14V FCW2420G14T	5468191071 5468191079	5468191071 SNT 5468191079 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5244 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420G141	5468191079	5468191088 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1	\$823.2
5256 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D175	5468191096	5468191096 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5268 C9300-48U-A 5280 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FCW2420D177 FCW2420C1DF	5468191113 5468191124	5468191113 SNT 5468191124 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5292 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420W10W		5468191135 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5304 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X1C7	5468191151	5468191151 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5316 C9300-48U-A 5328 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420U1CB FOC2420X0UQ	5468191160 5468191172	5468191160 SNT 5468191172 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5340 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X16D	5468191181	5468191181 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2
5352 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X14X	5468191197 5468191206	5468191197 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$823.2 \$823.2
5364 C9300-48U-A 5376 C9300-48U-A	Catalyst 9300 48-port UPOE, Network Advantage Catalyst 9300 48-port UPOE, Network Advantage	FOC2420X1C2 FCW2420G0TZ	5468191206 5468191220	5468191206 SNT 5468191220 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$823.2 \$823.2
5388 IR807G-LTE-NA-K9	807 Low-power Industrial ISR, 4G/LTE multimode for N.America	FCW24030H6B	5471729545	5471729545 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$166.0
5398 LIC-CT5520-UPG 5399 LIC-CT5520-1A	Top Level SKU for 5520 AP Adder Licenses Cisco 5520 Wireless Controller 1 AP Adder License		5481516136 5481516137	5481516136 ECMU 5481516136 ECMU	SWSS SWSS	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0 \$27.0
5400 AIR-AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC241800PY	5481516137	5481516136 ECMU 5483062981 SNT	SWSS SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	10	\$27.0 \$49.0
5406 AIR-AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC241800N4	5483063011	5483063011 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$49.0
5412 AIR-AP1852E-B-K9 5418 AIR-AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC241800GS KWC241800QC	5483063021 5483063030	5483063021 SNT 5483063030 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$49.0 \$49.0
5424 AIR-AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC241800QC KWC241800P4	5483063042	5483063042 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027	1	\$49.0
5430 AIR-AP1852E-B-K9	802.11ac Wave 2; 4x4:4SS; Ext Ant; B Reg Dom	KWC241800ND	5483063047	5483063047 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$49.0
5436 AIR-AP1852I-B-K9 5441 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC241705MD KWC241705KJ	5484443707 5484443734	5484443707 SNT 5484443734 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$44.6 \$44.6
5446 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC241705MA	5484443753	5484443753 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$44.6
5451 AIR-AP1852I-B-K9 5456 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC241705LH KWC241705MC	5484443767 5484443784	5484443767 SNT 5484443784 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$44.6 \$44.6
5461 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:45S; Int Ant; B Reg Dom	KWC241705MF	5484443802	5484443802 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$44.6
5466 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC241705LK	5484443818	5484443818 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$44.6
5471 AIR-AP1852I-B-K9 5476 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom 802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC242009W4 KWC241705M0	5484443849 5484443860	5484443849 SNT 5484443860 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$44.6 \$44.6
5481 AIR-AP1852I-B-K9	802.11ac Wave 2; 4x4:4SS; Int Ant; B Reg Dom	KWC241705LR	5484443873	5484443873 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$44.6
5486 FPR1140-NGFW-K9 5492 IR1101-K9	Cisco Firepower 1140 NGFW Appliance, 1U Cisco IR1101 Industrial Integrated Services Router Rugged	JMX2429X0B9 FCW2428P7RQ	5484444690 5484478951	5484444690 SNT 5484478951 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$621.0 \$120.0
5500 AIR-CT5520-K9	Cisco 5520 Wireless Controller w/rack mounting kit	FCH2420L0AC	5490901927	5490901927 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$2,804.6
5517 CS-KITPLUS-K9	Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator	FJC2433Q03R	5494452021	5494452021 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$1,610.7
5526 CS-KITPLUS-K9 5535 C9500-16X-A	Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Catalyst 9500 16-port 10Gig switch, Advantage	FJC2433Q04S FJB2430E054	5494452025 5494779609	5494452025 SNT 5494779609 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$1,610.7 \$1,232.4
5543 C9500-16X-A	Catalyst 9500 16-port 10Gig switch, Advantage Catalyst 9500 16-port 10Gig switch, Advantage	FJB2430E06G	5494779636	5494779636 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$1,232.4
5551 CS-KITP60-K9	Room Kit Plus P60 - Codec Plus, P60 Camera and Navigator	FJC2435Q06P	5500436341	5500436341 SSSNT	SOLN SU	01-Apr-2022	31-Mar-2027	1	\$1,649.0
5559 CS-KITPLUS-K9 5568 CS-KITP60-K9	Room Kit Plus w/Codec Plus, Quad Camera and Room Navigator Room Kit Plus P60 - Codec Plus, P60 Camera and Navigator	FGL2436L2WT FJC2437Q07A	5500706957 5503876479	5500706957 SNT 5503876479 SSSNT	SNTC 8X SOLN SU	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$1,610.7 \$1,649.0
5576 HS-WL-730-BUNAS-C	730 Wireless Dual On-ear Headset+Stand USB-A Bundle-Carbon	13024370077	5510732619	5510732619 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$80.0
5579 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513468296	5513468296 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0
5580 C2960X-24-DNA-E 5586 DNA-AIR-RENEW	DNA Essentials C2960X/XR 24P Term Lic DNA SUBSCRIPTION RENEW - WIRELESS		5513468358	5513468296 SSTC 5513468358 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$241.3 \$0. 0
5593 AIR-DNAC1E	CISCO DNA4C1 Essentials Term Wireless		5513468359	5513468358 SSTC	CISCO DI	01-Apr-2022	31-Mar-2027	300	\$88.7
5594 DNA-CAT-RENEW 5595 C2960X-24-DNA-E	DNA SUBSCRIPTION RENEW DNA Essentials C2960X/XR 24P Term Lic		5513468418	5513468418 SSTC 5513468418 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0 \$241.3
5601 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513468474	5513468474 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0
5602 C2960X-24-DNA-E	DNA Essentials C2960X/XR 24P Term Lic		5542460404	5513468474 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$241.3
5608 DNA-CAT-RENEW 5609 C2960X-24-DNA-E	DNA SUBSCRIPTION RENEW DNA Essentials C2960X/XR 24P Term Lic		5513468481	5513468481 SSTC 5513468481 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0 \$241.3
5615 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513468524	5513468524 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0
5616 C2960X-24-DNA-E 5622 DNA-AIR-RENEW	DNA Essentials C2960X/XR 24P Term Lic DNA SUBSCRIPTION RENEW - WIRELESS		5513468637	5513468524 SSTC 5513468637 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$241.3 \$0. 0
5629 AIR-DNAC1E	CISCO DNA4C1 Essentials Term Wireless		5513468638	5513468637 SSTC	CISCO DI	01-Apr-2022	31-Mar-2027	300	\$88.7
5630 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513468651	5513468651 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0
5631 C2960X-24-DNA-E 5637 DNA-CAT-RENEW	DNA Essentials C2960X/XR 24P Term Lic DNA SUBSCRIPTION RENEW		5513468660	5513468651 SSTC 5513468660 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$241.3 \$0.0
5638 C2960X-24-DNA-E	DNA Essentials C2960X/XR 24P Term Lic			5513468660 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$241.3
5644 DNA-AIR-RENEW 5651 AIR-DNAC1E	DNA SUBSCRIPTION RENEW - WIRELESS CISCO DNA4C1 Essentials Term Wireless		5513468693 5513468697	5513468693 SSTC 5513468693 SSTC	Software CISCO D	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	300	\$0.0 \$88.7
5652 DNA-AIR-RENEW	DNA SUBSCRIPTION RENEW - WIRELESS		5513468697	5513468749 SSTC	Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0
5659 AIR-DNAC1E	CISCO DNA4C1 Essentials Term Wireless		5513468750	5513468749 SSTC	CISCO D	01-Apr-2022	31-Mar-2027	300	\$88.7
5660 DNA-CAT-RENEW 5661 C2960X-24-DNA-E	DNA SUBSCRIPTION RENEW DNA Essentials C2960X/XR 24P Term Lic		5513469318	5513469318 SSTC 5513469318 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0 \$241.3
5667 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513469330	5513469330 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0
5668 C2960X-24-DNA-E 5674 DNAC1-AIR-SUB	DNA Essentials C2960X/XR 24P Term Lic CISCO DNAC1 Wireless For Renew Only		5513469349	5513469330 SSTC 5513469349 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$241.3 \$0.0
5682 AIR-DNAC1E	CISCO DNA4C1 Wireless For Renewal CISCO DNA4C1 Essentials Term Wireless - For Renewal		5513469351	5513469349 SSTC	CISCO D	01-Apr-2022	31-Mar-2027	300	\$88.7
5683 DNA-CAT-RENEW	DNA SUBSCRIPTION RENEW		5513469509	5513469509 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.0 \$241.3
5684 C2960X-24-DNA-E 5690 DNAC1-AIR-SUB	DNA Essentials C2960X/XR 24P Term Lic CISCO DNAC1 Wireless For Renew Only		5513474858	5513469509 SSTC 5513474858 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$241.3 \$0. 0
5698 AIR-DNAC1E	CISCO DNA4C1 Essentials Term Wireless - For Renewal		5513474864	5513474858 SSTC	CISCO D	01-Apr-2022	31-Mar-2027	300	\$88.7
5699 DNA-CAT-RENEW 5700 C2960X-24-DNA-E	DNA SUBSCRIPTION RENEW DNA Essentials C2960X/XR 24P Term Lic	-	5513475049	5513475049 SSTC 5513475049 SSTC	Software Software	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$0.0 \$241.3
5733 SPK-SHARE-K9	Cisco Webex Share wireless screen-sharing adapter.	FCH24522X3Z	5545503979	5545503979 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$70.
5735 SPK-SHARE-K9 5737 SPK-SHARE-K9	Cisco Webex Share wireless screen-sharing adapter. Cisco Webex Share wireless screen-sharing adapter.	FCH24522X3L FCH24522X5N	5545503980 5545503981	5545503980 SNT 5545503981 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$70. \$70.
5737 SPK-SHARE-K9 5739 SPK-SHARE-K9	Cisco Webex Share wireless screen-sharing adapter. Cisco Webex Share wireless screen-sharing adapter.	FCH24522X5N FCH24522WY0	5545503983	5545503981 SNT	SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$70. \$70.
5741 BE7M-M4-K9	^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	FCH1943V2Z2	5553487124	5553487124 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$424.
5769 CS-BOARD55S-G-K9 5772 BE7M-M4-K9	Cisco Webex Board 55S (GPL) ^Cisco Business Edition 7000M Svr (M4), Export Restricted SW	WZS2425E00L FCH2032V3D7	5573102006 5573203988	5573102006 SSSNT 5573203988 SNT	SOLN SU SNTC 8X	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$3,631.8 \$424.0
5828 UCSC-PCIE-IRJ45=	Intel i350 Quad Port 1Gb Adapter	FLY180100H8	1518325911	1518325911 ECMU	SWSS	01-Apr-2022	31-Mar-2027	1	\$0.0
5870 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	HU9TX8D9O0W		5384939915 ISV1	erver 2Sc	01-Apr-2022	31-Mar-2027	1	\$1,299.
5871 RHEL-2S2V-1A 5872 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	EK55UIQITDE 5MV7GNGNK5P	5384940713 5384949220	5384939924 ISV1 5384948597 ISV1	erver 2Sq erver 2Sq	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$1,299.0 \$1,299.0
5873 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	EQIEGN88L93	5384949227	5384948610 ISV1	erver 2Sc	01-Apr-2022	31-Mar-2027	1	\$1,299.
5874 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	R98VZQ5M7UT	5384953446	5384951709 ISV1	erver 2Sc	01-Apr-2022	31-Mar-2027	1	\$1,299. \$1,200
527510000	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	QRYDAFWBOQZ AKXOCSB55AN	 	5384951726 ISV1 5384951732 ISV1	erver 2Sq erver 2Sq	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$1,299. \$1,299.
5875 RHEL-2S2V-1A 5876 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	K7MTSGKYWK0	5384953459	5384951744 ISV1	erver 2Sq	01-Apr-2022	31-Mar-2027	1	\$1,299.
5876 RHEL-2S2V-1A 5877 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	SBSBYX46OSB 2GNO8IH0P4G	5384953463 5384953467	5384951754 ISV1 5384951762 ISV1	erver 2Sc erver 2Sc	01-Apr-2022 01-Apr-2022	31-Mar-2027 31-Mar-2027	1	\$1,299.0 \$1,299.0
5876 RHEL-2S2V-1A 5877 RHEL-2S2V-1A 5878 RHEL-2S2V-1A		1 /13100	JJU T JJJ4U/			·	31-Mar-2027	1	
5876 RHEL-2S2V-1A 5877 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	FXTY589A6HH	5384953472	5384951777 ISV1	erver 2Sc	01-Apr-2022	31-IVIal -2027		\$1,299.0
5876 RHEL-2S2V-1A 5877 RHEL-2S2V-1A 5878 RHEL-2S2V-1A 5879 RHEL-2S2V-1A 5880 RHEL-2S2V-1A 5881 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	FXTY589A6HH VGXCWAURLUG	5384953475	5384951790 ISV1	erver 2Sc	01-Apr-2022	31-Mar-2027	1	\$1,299.0
5876 RHEL-2S2V-1A 5877 RHEL-2S2V-1A 5878 RHEL-2S2V-1A 5879 RHEL-2S2V-1A 5880 RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req	FXTY589A6HH VGXCWAURLUG P56S9XFT80S		5384951790 ISV1 5384951799 ISV1	erver 2Sc erver 2Sc	01-Apr-2022 01-Apr-2022		1 1 1	\$1,299.0 \$1,299.0 \$1,299.0 \$1,299.0
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5887	R-IOTFND-V-K9	IoTFND software license for RF Mesh Management	773LPHUWITL	5464878844	5464878802 ECMU	SWSS	01-Apr-2022	31-Mar-2027	1	\$1,920.00	25.58%	\$3,163.07
5888	L-IOTFND-LORAWAN	IoTFND device license for managing LoRaWAN gateway	PHKPZCQDV0I	5464878866	5464878802 ECMU	SWSS	01-Apr-2022	31-Mar-2027	2	\$110.00	25.58%	\$362.44
5889	C9500-48Y4C-A-BUN	2 x C9500-48Y4C, 8 x QSFP-40/100-SRBD		5507992428	5507992428 SNT	SNTC 8X	01-Apr-2022	31-Mar-2027	1	\$3,491.00	22.50%	\$4,039.76
5918	DNA-AIR-RENEW	CISCO DNA for Wireless - CHOOSE ONLY QTY 1 HERE		5518149575	5518149575 SSTC	Software	01-Apr-2022	31-Mar-2027	1	\$0.00	41.50%	\$0.00
5922	AIR-DNA-A	Wireless Cisco DNA On-Prem Advantage, Term Lic		5518149587	5518149575 SSTC	Wireless	01-Apr-2022	31-Mar-2027	5	\$297.87	41.50%	\$1,150.55
5992	C9400-DNA-P	C9400 DNA-Premier License		5394347282	SSTC	C9400 D	01-Apr-2022	31-Mar-2027	1	\$6,407.29	41.50%	\$16,584.80
									Total B	id Price Transfer to E	Bid Form in Zycus	\$2,297,150.21



Formal Bid and Award System

Award #3 March 3, 2022

Type of Award Request: CONTRACT RENEWAL

Requestor Name: Smith, Thaliah D. **Requestor Phone:** (904) 665-8165

Project Title: Maintenance, Repair and Overhaul (MRO) Material Blankets

Project Number: Various (see attached)

Project Location: JEA

Funds: Capital & O&M

Award Estimate: N/A (See background)

Scope of Work:

JEA has previously issued an open qualification to invite vendors to submit discount pricing to JEA to provide Maintenance, Repair and Overhaul (MRO) materials on blanket orders, in lieu of purchasing cards (P-cards).

Blanket POs facilitate the buying of materials on a per release basis and tracking in the ERP system, in an expedited process as compared to pricing a purchase order or contract.

This request is to renew the contracts and increase the funds on the three (3) blankets.

JEA IFB/RFP/State/City/GSA#: 93087

Purchasing Agent: King, David

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Address	Phone	Original Amount	Previous Increases	Increase Amount (this Award)	New Not to Exceed Amount
GRAINGER	Eileen Walker		(904) 781-4913	\$2,700,000.00	\$0.00	\$94,000.00	\$2,794,000.00
HELECTRIC:	Gerald Raulerson		(904) 378-4000	\$1,800,000.00	\$1,634,000.00	\$468,000.00	\$3,902,000.00
			(904) 260-8420	\$1,200,000.00	\$2,247,000.00	\$676,000.00	\$4,123,000.00

Amount of Original Award:\$5,700,000.00Date of Original Award:03/22/2018Contract Increase Amount:\$1,238,000.00

List of Previous Change Order/Amendments

CPA#	Vendor	Date	Amount
173419	WORLD ELECTRIC SUPPLY	11/21/2019	\$1,000,000.00
173421	JO KELL INC.	11/21/2019	\$1,400,000.00

173419	WORLD ELECTRIC SUPPLY	03/25/2021	\$634,000.00
173421	JO KELL INC.	03/25/2021	\$847,000.00

New Not-To-Exceed Amount: \$10,819,000.00

Length of Contract/PO Term: Three (3) Years w/Two (2) - 1 Yr. Renewals

Begin Date (mm/dd/yyyy): 03/22/2018 **End Date (mm/dd/yyyy):** 03/21/2023

Renewal Options: NO – No remaining renewals

JSEB Requirement: N/A

Background/Recommendations:

Previously awarded informal blanket purchase agreements to support processing orders on blankets in lieu of P-cards. Use of blanket purchase agreement will allow spend consolidation and facilitate ordering.

Vendors commit to provide JEA a minimum of ten percent (10%) discount on materials purchased either off P-Card or blankets for their JEA account. Jo Kell, Inc., Grainger and World Electric Supply are the three (3) largest MRO P-Card spends at JEA.

Award amount contract increases were estimated by using current spend rates and forecasting over the remaining term of the contract (estimate calculations are attached as backup). Note, these MRO qualification agreements are non-requirements contracts that cover the whole organization. The approval to spend the funds takes place on the requisition from the already-approved fiscal year budget or capital project. This award will exercise the last renewal option for all three vendors.

Request approval to award a one year contract renewal and increase to Grainger (\$94,000.00), World Electric Supply (\$468,000.00) and Jo Kell, Inc. (\$676,000.00) to provide Maintenance, Repair and Overhaul (MRO) materials for a total amount of \$1,238,000.00, and new not to exceed amount for all three contracts of \$10,819,000.00, subject to availability of lawfully appropriated funds.

Manager:	Ruiz-Adams, Melinda M Ma	anager Business Operations		
Director:	Smith, Carole F Director, W/WW Asset Mgmt & Performa			
VP:	Vu, Hai X. – VP Water/Waster	water Systems		
APPROVA	LS:			
Chairman,	Awards Committee	 Date		

Budget Representative Date

Date: <u>03/25/2021</u> Item# <u>11</u>



Formal Bid and Award System

Award #11 March 25, 2021

Type of Award Request: CONTRACT RENEWAL

Requestor Name: Smith, Thaliah D. **Requestor Phone:** (904) 665-8165

Project Title: Maintenance, Repair and Overhaul (MRO) Material Blankets

Project Number: Various (see attached)

Project Location: JEA

Funds: Capital & O&M

Award Estimate: N/A

Scope of Work:

JEA has previously issued an open qualification to invite vendors to submit discount pricing to JEA to provide Maintenance, Repair and Overhaul (MRO) materials on blanket orders, in lieu of purchasing cards (P-cards).

Blanket POs facilitate the buying of materials on a per release basis and tracking in the ERP system, in an expedited process as compared to pricing a purchase order or contract.

This request is to renew the contracts and increase the funds on two (2) of the three (3) blankets.

JEA IFB/RFP/State/City/GSA#: 93087

Purchasing Agent: King, David

Is this a Ratification?: YES (partial - \$41,000.00 to Jo Kell)

RECOMMENDED AWARDEE(S):

Name	Contact Name	Address	Phone	Original Amount	Increase Amount (this Award)	New Not to Exceed Amount (including Previous Increase)
KAR A INKAHR		720 Suemac Road Jacksonville, FL 32254	(904) 781- 4913	\$2,700,000.00	\$0.00	\$2,700,000.00
WORLD ELECTRIC SUPPLY	K verala	569 Stuart Lane Jacksonville, FL 32254	` /	\$1,800,000.00	\$634,000.00	\$3,434,000.00
JO KELL	Carl Alvstad	9655 Florida Mining Blvd W. Ste. 301 Jacksonville, FL 32257	260-	\$1,200,000.00	\$847,000.00	\$3,447,000.00

Amount of Original Award: \$5,700,000.00

Date of Original Award: 03/22/2018

Contract Increase Amount: \$1,481,000.00

List of Previous Change Order/Amendments

CPA#	Vendor	Date	Amount
173419	WORLD ELECTRIC SUPPLY	11/21/2019	\$1,000,000.00
173421	JO KELL INC	11/21/2019	\$1,400,000.00

New Not-To-Exceed Amount: \$9,581,000.00

Length of Contract/PO Term: Three (3) Years w/Two (2) - 1 Yr. Renewals

Begin Date (mm/dd/yyyy): 03/22/2018 **End Date (mm/dd/yyyy):** 03/21/2022

Renewal Options: Yes - One (1) Yr. Renewal

JSEB Requirement: N/A

Background/Recommendations:

Previously awarded informal blanket purchase agreements to support processing orders on blankets in lieu of P-cards. Use of blanket purchase agreement will allow spend consolidation and facilitate ordering.

Vendors commit to provide JEA a minimum of ten percent (10%) discount on materials purchased either off P-Card or blankets for their JEA account. Jo Kell, Inc., Grainger and World Electric Supply are the three (3) largest MRO P-Card spends at JEA.

Award amount contract increases were estimated by using current spend rates and forecasting over the remaining term of the contract (estimate calculations are attached as backup). Note, these MRO qualification agreements are non-requirements contracts that cover the whole organization. The approval to spend the funds takes place on the requisition from the already-approved fiscal year budget or capital project. This award will exercise one of the renewal options for all three vendors.

Request approval to award a one year contract renewal to Grainger, World Electric Supply, and Jo Kell, Inc, and contract increases to World Electric Supply in the amount of \$634,000.00, and Jo Kell, Inc. in the amount of \$847,000.00 to provide Maintenance, Repair and Overhaul (MRO) materials for a total amount of \$1,481,000.00, and new not to exceed amount for all three contracts of \$9,581,000.00, subject to availability of lawfully appropriated funds.

Date

Manager: Ruiz-Adams, Melinda M. - Manager Business Operations

VP: Vu, Hai X. – VP Water/Wastewater Systems

APPROVALS:

03/25/2021

Chairman, Awards Committee

dget Representative D



Formal Bid and Award System

Award #4 March 3, 2022

Type of Award Request: CONTRACT INCREASE

Request #: 6607

Requestor Name: Schoettler, Kyle C. - Mgr W/WW System Operations & Customer Response

Requestor Phone: (904) 665-8165

Project Title: Restoration of Disturbed Asphalt Paved Areas

Project Number: Various **Project Location:** JEA

Funds: Capital and O&M (line 691)

Budget Estimate: \$1,229,593.17

Scope of Work:

The purpose of this Invitation to Negotiate (ITN) is to solicit competitive Responses from asphalt restoration companies that can provide all materials, labor, equipment, supervision, delivery, and disposal of waste materials services as described in this ITN. JEA crews disturb paved areas during planned and unplanned maintenance/construction efforts. This contract provides for the restoration of those areas.

JEA IFB/RFP/State/City/GSA#: 050-16

Purchasing Agent: Brown, Darriel D.

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
	WAYNE WARREN		144 S Arlington Rd Ste 1, Jacksonville, FL 32225	(904) 721-5520	\$1,229,593.17

Amount of Original Award: \$11,868,359.46

Date of Original Award 06/09/2016

Contract Increase Amount: \$1,229,593.17

New Not-To-Exceed Amount: \$25,326,363.32

List of Previous Change Order/Amendments

CPA#	Date	Amount
155699	05/09/2019	\$11,228,410.69
155699	06/30/2021	\$1,000,000.00

Length of Contract/PO Term: Five (5) Years w/ One (1) - 1 Yr. Renewal

Begin Date (mm/dd/yyyy): 06/17/2016 **End Date (mm/dd/yyyy):** 06/16/2022

Renewal Options: Yes - One (1) - 1 Yr. Renewal **JSEB Requirement:** Ten Percent (10%) Goal

Comments on JSEB Requirements:

Original Award

Donna Hamilton (Materials) – 10% DJ Contracting (Materials) – 5% National Tire (Materials) – 1%

Total: 16%

Background/Recommendations:

Originally bid and approved by the Awards Committee on 06/09/2016 in the amount of \$11,868,359.46 to Warren Asphalt Inc. A copy of the previous award is attached as backup.

This contract increase request is to add \$1,229,593.17 to finish out the remaining four (4) months on the contract. This contract increase amount includes expected annual increases due to Consumer Price Index (CPI) adjustments that can be exercised annually on the contract. Due to increases in the number of caveins and manhole failures JEA has had over the past three (3) years, this contract has been used more extensively than originally anticipated. A new solicitation for asphalt paved site restoration has been comprised and the bid is in evaluation. This process, because it is an evaluated bid, will not be completed by the time existing contract funding expires, so this contract increase is expected to cover funding for the existing contract term.

Request approval to award a contract increase to Warren Asphalt Inc. for Restoration of Disturbed Asphalt Paved Areas in the amount \$1,229,593.17, for a new not to exceed amount of \$25,326,363.32, subject to the availability of lawfully appropriated funds.

Manager:	Schoettler, Kyle C Mgr	W/WW System Operations & Customer Respor	ıse					
Director:	Scheel, Jackie B. – Dir W	Scheel, Jackie B. – Dir W/WW Reuse Delivery & Collection						
VP:	Vu, Hai X VP Water/W	astewater Systems						
APPROVALS	S:							
Chairman, A	wards Committee	Date						
Budget Repre	esentative	 Date						

May 9, 2019



Formal Bid and Award System

CPA 155-699 Award #5

Type of Award Request: CONTRACT INCREASE

Request #: 6607

Requestor Name: Smi

Smith, Thaliah D. - Contract Specialist

Requestor Phone:

(904) 665-8165

Project Title:

Restore Disturbed Asphalt Paved Areas

Project Number:

Various

Project Location:

JEA

Funds:

Capital and O&M (lines 417, 758)

Budget Estimate:

11,686,359.46 (Original Budget/ 5 year term)

Scope of Work:

The purpose of this Invitation to Negotiate (ITN) is to solicit competitive Responses from asphalt restoration companies that can provide all materials, labor, equipment, supervision, delivery and disposal of waste materials services as described in this ITN. JEA crews disturb paved areas during planned and unplanned maintenance/construction efforts. This contract provides for the restoration of those areas.

This award will impact the following Measures of Value:

Community Impact Value: JEA has a responsibility to our customers in our service territories to
maintain excellent site rehabilitation when maintenance and construction work completion impacts
surrounding roadways.

JEA IFB/RFP/State/City/GSA#:

050-16

Purchasing Agent:

Kruck, Daniel R.

Is this a Ratification?:

NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
WARRENS ASPHALT INC	WAYNE WARREN	admin@warrenasphalt.com	144 S Arlington Rd Ste 1, Jacksonville, FL 32225	(904) 721- 5520	\$11,228,410.69

Amount of Original Award:

\$11,686,359.46

Date of Original Award

06/09/2016

Contract Increase Amount:

\$11,228,410.69

New Not-To-Exceed Amount:

\$22,914,770.15

Length of Contract/PO Term:

Five (5) Years w/ Onc (1) - One (1) Year Renewal

Begin Date (mm/dd/yyyy):

06/17/2016

End Date (mm/dd/yyyy):

06/17/2021

Renewal Options:

Yes - One (1) - One (1) Year Renewal

JSEB Requirement:

Ten Percent (10%) Goal

Comments on JSEB Requirements:

Original Award

Donna Hamilton (Materials) – 10% DJ Contracting (Materials) – 5% National Tire (Materials) – 1%

Total: 16%

Background/Recommendations:

Originally bid and approved by the Awards Committee on 06/09/2016 in the amount of \$11,686,359.46 to Warrens Asphalt Inc. A copy of the original award is attached as backup.

This contract increase request is to add \$11,228,410.69 to finish out the remaining twenty-six (26) months on the contract. This contract increase amount includes expected annual increases due to Consumer Price Index (CPI) adjustments that can be exercised annually on the contract. Due to increases in the number of cave-ins and manhole failures JEA has had over the past three (3) years, this contract has been used more extensively than originally anticipated. The original contract budget estimate was split evenly between O&M and Capital funds, however, a review of the actual spend shows an average of 60% capital and 40% O&M spend.

The contract details are below:

Original Budget: \$11,686,359.46

O&M Budget (50%): \$5,843,174.73

o Capital Budget (50%): \$5,843,174.73

Historical Fiscal Year Spend

FY16 = \$735,836.97

FY17 = \$3,521,211.99

• FY18 = \$4,551,795.70

FY19 (Annualized) = \$5,007,560.28

Revised Budget: \$22,914,770.15

o O&M Budget (40%): \$9,165,908.06

o Capital Budget (60%): \$13,748,862.09

• Estimate at Contract Completion w/1 year renewal: \$28,307,364.87

O&M Budget: \$11,322,945.95
 Capital Budget: \$16,984,418.92

Major Changes/Issues:

Over the past three (3) years JEA has experienced over a 100% increase in the number of cave-ins and manhole failures than when this contract was awarded. Contract was fixed for the first two years with CPI adjustments for the remaining years. The new budget amounts include the anticipated CPI adjustments.

Request approval to award a contract increase to Warrens Asphalt Inc. to Restore Disturbed Asphalt Paved Areas in the amount \$11,228,410.69, for a new not to exceed amount of \$22,914,770.15, subject to the availability of lawfully appropriated funds.

Manager:

Schoettler, Kyle C. - Mgr W/WW System Operations & Customer Response

Director:

Scheel, Jackie B. - Dir W/WW Reuse Delivery & Collection

VP:

Calhoun, Deryle I. - VP/GM Water Wastewater Systems

APPROVALS:

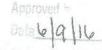
Chairman, Awards Committee

Date

Manager, Operating Budgets

Date





ommittee

Formal Bid and Award System

Award #4

June 9, 2016

Type of Award Request:

PROPOSAL (ITN)

Request #:

527

Requestor Name:

Scheel, Jackie B. - Manager, W&S Customer Service Response

Requestor Phone:

(904) 665-8473

Project Title:

Restore Disturbed Asphalt Paved Areas

Project Number:

Various O&M and Capital

Project Location:

JEA

Funds:

Capital and O&M

Award Estimate:

N/A

Description of Request:

The purpose of this Invitation to Negotiate (ITN) is to solicit competitive Responses from asphalt restoration service companies that can provide all materials, labor, equipment, supervision, delivery and disposal of waste materials services as described in this ITN (the "Work").

Requisition Number:

JEA IFB/RFP/State/City/GSA#:

050-16

Purchasing Agent:

Lovgren, Rodney Dennis

Is this a ratification?:

NO

If yes, explain:

RECOMMENDED AWARDEE(S):

155/199

	Contac		4 /		
Name	Contact Name	Email	Address	Phone	Amount
WARRENS ASPHALT INC	WAYNE WARREN	admin@warrenasphalt.com	144 S Arlington Rd Ste 1, Jacksonville FL 32225	(904) 721- 5520	\$11,868,359.46

Amount for entire term of Contract/PO:

\$11,838,359.46

Award Amount for remainder of this FY:

\$1,950,000.00

Length of Contract/PO Term:

Begin Date (mm/dd/yyyy):

Five (5) Years w/ One (1) - 1 Yr. Renewal 06/01/2016

End Date (mm/dd/yyyy):

05/31/2021

Renewal Options:

JSEB Requirement:

YES - One (1) - 1 Yr. Renewal Ten percent (10%)

Comments on JSEB Requirements:

Warrens Asphalt named Donna Hamilton 10%;

DJ Contracting 5%; National Tire 1%

BIDDER:

Name	n: 1	
WARRENS ASPHALT INC	Bid	Disqualified
WINGENS ASPHALI INC	\$8,697,325.00	NO

Background/Recommendations:

Advertised 4/1/2016. Two (2) companies attended the mandatory pre-response meeting on 4/11/2016. At Response opening on 4/26/2016, JEA received one (1) response.

The reason for the low competition is this work is for small job scopes and volume intensive in nature. Currently Warrens is the only supplier in Jacksonville that can meet the mobilization, quality and coordination requirements satisfactorily. The second company that attended the pre-bid, usually subcontracts to Warrens, as even Warrens runs into project volume coordination at times. Additionally this contract requires MOT, and not all companies can provide this service.

The contract is to perform asphalt restoration work. The work includes excavation, filling, compacting, paving and settling issues within JEA's service territory. This contract supports both Capital and O&M efforts companywide: Electric, Water & Sewer, Customer Service and Facilities. Services provided may be required twenty-four (24) hours a day, seven (7) days a week on an emergency basis due to the nature of our utility infrastructure, and the necessity to ensure the roadways are passable. The contract term is for five (5) years with one (1) optional renewal.

The difference from the bid price and the award amount is due to the addition of \$3.6M of forecasted work for Facilities, budgeted over the next five years. Warrens' initial price showed a five (5%) percent increase from the 2011 pricing. A \$248,255.00 aggregate reduction was achieved through negotiations which included the additional work scope, reduced bonding requirements, and adding a provision for a CPI adjustment upon completion of year three (3) of the contract. The net result of these negotiations brings pricing back on an aggregate comparison to the same as 2011 pricing.

050-16 - Request approval to award a five (5) year contract to Warrens Asphalt for asphalt restoration work, in the amount of \$11,868,359.46, subject to the availability of lawfully appropriated funds.

Manager:

Scheel, Jackie - Mgr W/WW Customer Response

Director:

Cadle, Robert B. - Dir W/WW Reuse Delivery & Collection

VP:

Roche, Brian J. - VP/GM Water Wastewater Systems

APPROVALS:

Chairman, Awards Committee

Date

Manager, Capital Budget Planning

Date

Operating Budgets

APPENDIX B RESPONSE FORM 050-16 DISTURBED ASPHALT RESTORATION SERVICES Best and Final Offer (BAFO)

The Respondent shall submit one signed copy of the following response form along with the Response Rates Workbook to Rodney Loverd@ies.com

PROPOSER INFORMATION:	
THE VENTA IN .	
COMPANY NAME: Warren Asphalt Inc.	
BUSINESS ADDRESS: 7411 Silver Lake Te	
CITT, STATE, ZIP CODE: Jacksonville El 222	errace
TELEPHONE: 904-721-5520	.10
FAX: 904-725-9408	
EMAIL ADDRESS: admin@warrenasphalt.com	
this ITN and agrees to abide by the terms and conditions authorized representative of the Respondent, and (3) the maintains an active status in the State of Florida. The Rewill not interfere with the Respondent's ability to work in	that it has read and reviewed all of the documents pertaining to set forth therein, (2) that the person signing below is an the Respondent is legally authorized to do business and espondent certifies that its recent, current, and projected workload in a professional, diligent and timely response.
other credentials required by law, contract or practice to prospect of any change in the status of applicable license the Respondent shall immediately notify JEA of status cl	it holds all licenses, permits, certifications, insurances, bonds, and perform the Work. The Respondent also certificated
other credentials required by leavening of perjury, that	it holds all licenses, permits, certifications, insurances, bonds, and perform the Work. The Respondent also certifies that, upon the es, permits, certifications, insurances, bonds or other credentials, hange.
other credentials required by law, contract or practice to prospect of any change in the status of applicable license the Respondent shall immediately notify JEA of status cl	it holds all licenses, permits, certifications, insurances, bonds, and perform the Work. The Respondent also certificated

050-16 DISTURBED ASPHALT RESTORATION RESPONSE WORKBOOK BAFO

No.	Description	UOM	5 Year Foreca		BAFO Pricing, base negotiation point (Warrens Please Populate)	3	BAFO Extended Price
T THE PARTY OF THE	ation Jobs (Restoration Area - Under 200	(SY)		-	Topulate)		
2	Priority Response	EA	2,5	00 1	\$ 50.	nn.	
3	A-3 Fill	CY	11,6	_		-	\$ 125,000.00
4	Limerock- 8" Thick	S.Y.	54.5		U.	20	\$ 95,743.20
5	Asphalt Milling	S.Y.	26,2	_	10.	20	2000000
6	Asphalt Milling Mobilization	. S.Y.	10,2	_		75	mang 10 1.00
0	Asphalt Removal	S.Y.	6,6	-		85	3730 200.00
7-	City of Jacksonville Asphalt Repair	2					
7a	Asphalt 1" thick	S.Y.	56,25	0 0	22	-	
7b	Mobilization Fee- Each ticket	EA		0 3	27.12	mania	\$ 1,546,875.00
8a	FDOT Asphalt Repair		0,00	10 12	50,0	(1)	\$ 425,000.00
04	Asphalt 1" thick	S.Y.	7,50	0 \$	27.0	-	6
9a	St. Johns County Asphalt Repair		7,50	0 0	27.5	0	\$ 206,250.00
96	Asphalt 1" thick	S.Y.	3,75	0 8	47.5	0	
The state of the s	Mobilization Fee- Each ticket	EA	50	-	- 1 v v.	-	\$ 103,125 00
9c	Right of Way Permit	EA	50	-	J de sal	_	\$ 36,150.00
10	Nassau County Asphalt Repair		30	0 3	145.0	0 .	\$ 72,500.00
10a	Asphalt 1" thick	S.Y.	3,75	0 5		-	
106	Mobilization Fee- Each ticket	EA	500	-	27.5		103,125.00
10c	Right of Way Permit	EA	500	_	72,3	-	50,270.00
**	Clay County Asphalt Repair		300	1 3	145.00	0 3	72,500.00
Ila	Asphalt 1" thick	S.Y.	751	1 5	-	-	
116	Mobilization Fee- Each ticket	EA	233		27.50		2000,00
11c	Right of Way Pormit	77.		-	72.30		201010.20
arge Restorat	ion Jobs (Restoration area - Over 200 SY	, not to exceed 1 1	100	1 8	145.00) 3	14,500.00
	Priority Response	EA	500	10			
13	A-3 Fill	C.Y.	52,058		145.00		
14	Limerock - 8" Thick	S.Y.	70,454	-	8.20		Commence of the Commence of th
15	Asphalt Milling	S.Y.	22,666	-	10.60		1090420 10
16	Asphalt Milling Mobilization	S.Y.	450	-	14.46	THE REAL PROPERTY.	
17	Unsuitable Sub-base Removal	S.Y.	15,500		24,10	-	10,845 00
15	Asphalt 1 1/2" thick		13,300	13	24.10	13	373,550.00
18a	201 to 300 sq yds in size	S.Y.	43,333	2	1100	-	
18b	301 to 400 sq yds in size	S.Y	35,833		14.25		617,495.25
18c	401 to 500 sq yds in size	S.Y.	35,833		14.25	-	510,620.25
18d	Greater than 500 sq yds. (not to exceed 1,000 yds)	S.Y.	35,833	9	14.25	3	510,620.25
irge Restoratio	on Jobs (Restoration area - Over 200 SV.	not to exceed 1 0	33,033	\$	14.25	\$	510,620.25
	Asphalt 4" thick (City std./FDOT)						
19a	201 to 300 sq yds in size						
19b	301 to 400 sq yds in size	S.Y.	3,500	\$	27.00	2	94,500.00
19c	401 to 500 sq yds in size	S.Y.	2,500		27.00		67,500.00
	Greater than 500 sq yds. (not to exceed	S.Y.	2,500	\$	27.00	-	67,500.00
19d	1,000 yds)	S.Y.	2,500	ф			07,500.00
	Asphalt 8" thick			5	27.00	\$	67,500.00
20a	201 to 300 sq yds in size	S.Y.	1000				
20b	301 to 400 sq yds in size	S.Y.		\$	36.63		45,787.50
20e	401 to 500 sq yds in size	S.Y.	1,250		36.63		45,787.50
20d	Greater than 500 sq yds. (not to exceed	S.Y.	1,250	3	36.63	\$	45,787 50
-	1,000 yds)	0.1.	1,250	\$	36.63	S	45,787 50
21a	Asphalt 12" thick				0000	NP.	43,707 3U
22	Greater than 200 sq yds.	S.Y.	2,500	\$	53.00	4	122 500 00
23	Saw Cut Asphalt	LF	1,250		1.00		1,250.00
	Saw Cut Concrete	LF	1,250		2.00		2,500.00
24a	Mobilization Fee Each Ticket				2.00	4	4,500.00
246	City of Jacksonville	EA	250	\$	145.00	\$	36,250.00
24c	St Johns County	EA	50		145.00		7,250.00
24d	Nassau County	EA	50		145.00		7,250.00
	Clay County	EA	25	-			
25	Right Of Way Permit	EA	40	4D	145.00	3	3,625.00

950-16 DISTURBED ASPHALT RESTORATION RESPONSE WORKBOOK BAFO

No.	Description			- College	BAFO Pricing, based	on	
Friedrich		UOM	5 Year Foreca	st	negotiation points (Warrens Please	-	BAFO Extended Pr
Miscellanco	us Items These Apply to All Projects				Populate)		
ĺ	Assist JEA On Emergency		T	-			
- 26	As/Needed Basis		1			1	
26a	Crew Hourly Rate	HR	-	-	4		
26b	After Hours/Weekend Crew Hours	/	30	00	\$ 240.0	0	\$ 120,000.0
	Rate .	HR	. 25	0			
26c	Compaction of Fill in 6-12" Lifts	S.Y.	10.00	-	\$ 338.0		84,500.0
26d	Furnish and Deliver Proctored A-3 fi		10,00	U	\$ 11.5	6	\$ 115,600.0
	dirt	C.Y.	50	0			
26e	Furnish and Deliver LBR 40 Sub-gra	ie	-	- 1	10.0) 1	5,000.0
	Moterial	C.Y.	25	0			
Miscellaneon	s ItemsThese Apply to All Projects			9 5	20.00) 1	5,000.0
27	Laboratory/Field Testing	(Allowance)		-			
	Valve Jacket Adjustment	(vinowance)	-	1		9	35,000.0
27a	COJ Right Of Way	EA	-	1		T	
27b	FDOT Right Of Way	EA	500	-	A.1 DO	15	72,500.0
27c	County Right Of Way	EA	150	1000	278.00	15	21,750.0
-	Manhole Adjustment	EA	25	\$	145.00	15	3,625.0
28a	COJ Right Of Way	EA				1	-,,-
28b	FDOT Right Of Way	EA	500	74	10.00	IS	265,000,0
28c	County Right Of Way	-	150	_	530,00	\$	79,500.00
	Pavement Markings	EA	25	\$	530.00	18	13,250.00
30a	Skip Traffic Stripe Paint	T F					20,00,00
30b	Solid Traffic Stripe Paint	L.F.	5,000	15	1.95	\$	9,750.00
30c	12" Painted Stripe	L.F.	5,000	\$	1,95	S	9,750.00
30d	24" Painted Stripe	L.F.	1,500	\$	2,90	3	4,350.00
21	Thermoplastic Striping, Refer to	L.F.	1,500	5	3.40	8	5,100.00
31	note 1 below.	(Allowance)				-	3,100.00
32	Show-up Fee (when site is not ready)			-		\$	50,000.00
		EA	500	0	10000		
3	SUPPLEMENTAL WORK			\$	145.00	\$	72,500.00
33	AUTHORIZATION (SWA) Refer						
	to: Note 3 below.	- 1		1			
34	Cold Mix (billed as a pass through at					\$	100,000.00
JP4	cost)	PER TON	14,000	\$	145.00		
35	Millings (billed as a pass through at		2 1,000	a	145.00	\$	2,030,000.00
33	cost)	PER TON	3,250	5			-4020,000.00
			2,230	D	18.50	8	60,125,00
36	Delivery (per truckload) # of					-	00,123.00
-00	Deliveries forecast based on 15 yard	PER DELIVERY	1,150	\$	150.00		
OTAL DES	aump truck.		-,0	-	1,70,00	9	
DIAL BID]	PRICE (ENTER THIS AMOUNT ON T	HE RESPONSE	Revised Bid	_		\$	172,500.00
	FORM)		Amount				11,868,359.46

E	Extended Price, Persons Change, Dalfa, (aegative numb			CURREN	CT PRICING USING TT FORECAST	USING CURI	ROUND PRICING RENT FORECAST	050-16 BAFO CURNENT	PRICING USING	
	Charles Date: (degative numb	ers are decrease	s)		\$ 11,862,506.00	2.1%	\$ 12,116,615.10 \$ 254,109,10		11,004,059,46	
No.	Description	ЕОМ	5 Year Forecast	Warrens Contract (2011	Warrens Previous Contract Pricing	Western games Landenge China	Extended Bid Pricing	- Charles	(STECHELL)	Price Char
Restor	ration Jobs (Restoration Area - Under 200 SV)			Pricing)	Extended	Hand Hall Deschools	a manea mar a ricing	MINTER STREET	AFO Estended Price	from 2011
1	Priority Response	1 7	-	-		-	MODEL AND THE SAME	1		1 %
2	A-3 Fill	EA	2,500		125,000 00	5 50.00	\$ 125,000,00			
3	Limerock- 8" Thick	CY	11,676		93,408 00	Y 5.30	240,000,00		125,000,00	0.00%
4	Asphalt Milling	S.Y.	54,545	\$ 10.00	545,450 00				95,743,20	2,50%
5	Asphalt Milling Mobilization	S.Y.	26,250	\$ 8.00	\$ 210,000 00	-	\$ 599,995.00		356,359.00	2.00%
6	Asphalt Removal	S.Y.	10,250	\$ 500			\$ 210,000.00			-3.13%
	City of Jacksonville Asphalt Repair	S.Y.	6,634	\$ 800	2220000		\$ 51,250,00	\$ 486 5	49,712,50	-3.00%
7a	Asphalt I" thick			1	5 53,072 00	5 31	\$ 54,067.10	5 800 5	53,072.00	0.00%
7b	Mobilization Fee- Each ticket	S.Y.	56,250	\$ 2700					27,072,00	0.00%
	PDOT Asphalt Repair	EA	8,500		-1,,-41,00.00		\$ 1,575,000,00	S 27 50 S	1,546,875.00	
8a	ADOI Aspitalt Repair	10000	0,500	\$ 50.00	\$ 425,000.00	3 4 181	\$ 425,000,00	S 50110 S	1,740,873,00	1.85%
98	Asphalt 1" thick	S.Y.	7,500			- W	140,000,00	3 .00.00 3	425,000,00	0.00%
-	St. Johns County Asphalt Repair	3.1.	7,300	\$ 2700	\$ 202,500 00	\$ 30.00	\$ 225,000.00			
9a	Asphalt 1" thick	0.16	1				223,000,00	5 2750 8	206.250.00	1.85%
96	Mobilization Fee- Each ticket	S.Y.	3,750		\$ 101,250.00	5 39.00	\$ 105,000,00			7.80
9c	Right of Way Permit	EA	500	\$ 75.00	\$ 37,500.00			5 27 50 5	103,125.00	1.85%
	Nassau County Asphalt Repair	EA	500	\$ 150 00	\$ 75,000.00		\$ 37,500.00	5 7230 8	36,150,00	-3.60%
10a	Asphalt 1" thick			101510	15,000,00	S 250 250	\$ 75,000.00	5 145.00 5	72,500.00	-3.33%
10b	Mobilization Fee-Each ticket	S.Y.	3,750	\$ 27.00	£ 101 200 00 1					-2,5570
10c	Right of Way Permit	EA	500	\$ 75.00	*********	N 18 (8)	\$ 105,000.00	5 27 50 3	103 (125.00)	1.85%
	Clay County Asphalt Repair	EA	500	\$ 150.00	0.14000.00		\$ 37,500,00	5 72.40 5	36.150.00	
Ila	Asphalt I" thick			4 130.00	\$ 75,000 00	S * Se (g)	\$ 75,000,00	S 145 on S	72,500 00	-3.60%
115		S.Y.	750					COUNTY OF	72.500 FGU	-3.33%
lic	Mobilization Fee- Each ticket	EA		27.00		Y 100	\$ 21,000.00	5 27 50 5		
110	Right of Way Permit			\$ 75.00			21,000,00		20,625,00	1.85%
Kentom	thon Joba (Restoration area - Over 200 SY, not to exceed 1,000 S	P) CA	100	\$ 150.00	\$ 15,000,00		***************************************		16,845 90	-3.60%
	pariously recopolise					-	13,000,00	145,00 5	11,300 00	-3.33%
13	A-3 Fill	EA	500		\$ 75,000.00	s 150 nn	\$ 75,000,00 1			
14	Limerock - 8" Thick	C.Y.	52,058	\$ 8.00	\$ 416,464.00			5 14500 5	72,500,00	-3.33%
15	Asphalt Milling	S.Y.	70,454		\$ 704,540.00		THE TOURS	S B.20 S	426,875 60	2.50%
16	Asphalt Milling Mobilization	S.Y.	22,666	\$ 1500			774,994.00	5 10 10 15	746,812.40	6,00%
17	Unsuitable Sub-base Removal	S.Y.	450	5 750.00	403 10 00		339,990,00	5 1446 5	327,750 36	-3.60%
	Asphalt 1 1/2" thick	S.Y.	15,500				11,250.00	ALC: USA	10.845.00	
l8a	201 to 300 sq yds in size		10,000	4 23.00	356,500 00	V 25.00	387,500.00	5 24 10 5	373.550.00	-96.79%
18b	201 to 300 sq yds in size	S.Y.	43,333	\$ 13.50				5711113	575.200,00	4.78%
8c	301 to 400 sq yds in size	S.Y			1001000	V 71 10 1	649,995,00	5 1425 5		
	401 to 500 sq yds in size	S.Y.		\$ 13.50		11100	0111222700		617,495.25	5,56%
8d	Greater than 500 sq yds. (not to exceed 1,000 yds)	S.Y.	35,833	To pu			537,495,00	100	510,620.25	5.56%
testorat		0.1.	35,833	\$ 13.50	483,745 50	15 40 5	+3-1-42-100 E	17:00 1 7	510,620.25	5.56%
		1					537,495,00	1125 5	510,620 25	5.56%
9a	1201 to 300 sq vds in size	-		1						SCHOOL STATE
9Ь	301 to 400 sq vds in size	S.Y.		\$ 2600 \$	91,000.00	28.00 \$				
9c	1401 to 500 sq vds in size	S.Y.	2,500	\$ 26.00 5		-	20,000,00 1110	27.(0) 5	34,500.00	3.85%
9d	Greater than 500 sq yds. (not to exceed 1,000 yds)	S.Y.	2,500	S 26.00 S		-	1 210 2 2100	27.00 \$	67,500 08	3.85%
	Asphalt 8" thick	S.Y.	2,500	\$ 2600 S		S in S	eronaron Eme	27 00 5	67.500.00	3.85%
0a	201 to 300 sq yds in size				03,000,00	Sum \$	70,000,00	27.00 5	67,500,00	
0b	301 to 400 d	S.Y.	1,250	35 00 S	4000				w. codimi	3.85%
0c	301 to 400 sq yds in size	S.Y.		2200 3	10,100,00	15.00 5	47,500.00	36.63 5	15 700 4	255
0d	401 to 500 sq yds in size	S.Y.		20,00 0	454120 00	S HEVE			45,787.50	4.66%
ut	Greater than 500 sq yds. (not to exceed 1,000 yds)	S.Y.		35.00 \$		ix m S			15,787.50	4.66%
_	[Asonait 12" thick	3.1.	1,250	35 00 \$	43,750 00	18 (0) \$	A. TOOR 'OO LONG	36.63 5	45,787.50	4.66%
la	Greater than 200 sq yds,	-				,	47,500,00	36.63 \$	45,787 50	4.66%
2	Saw Cut Asohalt	S,Y,	2,500	50.00 S	125,000.00	73.00	and the same			A.zedya
3	Saw Cut Concrete	LF	1,250 3				Transcrete Print	53.00 5	132,500,00	6.00%
	The second section is a second	7.0		1 44 4		1 191 5	1,250.00			0.0070
		LF	1,250 5	1.00 \$	1,250.00 s		1,230,00 105	1001 \$	1.250 (x)	0.00%

F	Extended Price, Percent Change, Dales, (negative number			2011	CURREN	T FOR	-		ROUND PRICING		O PRICING USING	7
		's are decrease	8)			S	11,862,506.00	2,1%	\$ 12,116,615,10		\$ 11.868,359.46	
No.	Description	UOM	5 Year Forecast	Can	Varrens tract (2011	Warr	rens Previous tract Pricing	Harrist taget Lactor (2 to	2-4105,10		5200,119,64	Price Chan
rge Mesto	Mobilization Fee Kach Toler 200 SV, not to exceed 1,000 S	10	1	P	'ricing)		Extended	He while proper	extended Bid Pricing	NAFO Prieme	USEO Friended Price	from 2011 b
24a		1)										%
24a	City of Jacksonville	-										
	St Johns County	EA	250		150 00	2	37,500.00					1
24c	Nassau County	EA	50		150 00		7,500.00	S 150 min	5 37,500.00		\$ 36,250 00	2 7774
244	Clay County	EA	50	1 5	150 00		7,500 00	5 (** %)	\$ 7,500.00	5 145 00	\$ 7,250.00	-3,33%
25	Right Of Way Permit	EA	25	S	150 00			S Cities	5 7,500.00		1,230,00	-3.33%
scellaneou	Hems These Apply to All Profession	EA	125	2	150.00		3,750.00	V 150 m	\$ 3,750.00	\$ 145.00	1,550,00	2 200
	Assist JEA On Emergency As/Needed Basis		- CANAD		220.00	7	18,750.00	150 00	\$ 18,750.00	\$ 145.00	13125 10	-3.33%
26a	ICIEW DOINV Rate	The same		7		-	-			132.00	9 18 125.00	-3.33%
265	After Hours/Weekend Crew Hourly Rate	HR	500	2	250 00							
26c	Compaction of Pill in 6-12" Lifts	HR	250		250.00		125,000 00	784 80	\$ 125,000.00	6 240.00	,	
26d	Furnish and Deliver Proctored A-3 fill dirt	S.Y.	10,000				62,500 00	350.00	\$ 87,500.00	-	120,000,00	-4.00%
26e		C.Y.	500		12 00		120,000 00	12.69	\$ 120,000,00		\$ 84,500,00	35.20%
cellaneons	Furnish and Deliver LBR 40 Sub-grade Material Items These Apply to All Projects	C.Y.	250		10.00		5,000 00	\$ 100 mg	\$ 5,000,00		\$ 115,600,00	-3.67%
27	Laboratory/Field Testing	The state of the s	230	13	10.00	3	2,500 00	Diser	2,000,00	The form	5,000 00	0.00%
-	Value V Testing	(Allowance)		7					\$ 5,000.00	3 20.00	5 5,000.00	100.00%
27a	Valve Jacket Adjustment	(Asirowanice)	1				F					
27b	COJ Right Of Way	T 74	-	1			-				\$ 35,000,60	
27c	FDOT Right Of Way	EA FA	500		150 00 1		75,000 00	1	\$ 75,000,00			
216	County Right Of Way	EA	150		150 00 3		22,500 00			5 145110	72,500,00	-3.33%
28a	Manhole Adjustment	EA	25	5	150 00 5	S	3,750 00			8 145 00	\$ 21,750.00	-3.33%
28b	COJ Right Of Way						4,000	1 30 100	\$ 3,750,00	S 145 (m)	3,625.00	-3.33%
	FDOT Right Of Way	BA BA	500	S	550 00 5	2	275,000.00					-3,3379
28c	County Right Of Way	EA	150	5	550 00 \$	2	82,500 00		5 275,000,00	S 530 (K) 1	265,000,00	-3.64%
	Pavement Markinga	EA	25	\$	550 00 \$		13,750 00			\$ 530.00 0	79,500,00	
30a	Skip Traffic Stripe Paint		1		-		13,130,00	91000	5 13,750.00	3 530.00 5	13,250,00	-3.64%
306	Solid Traffic Stripe Paint	L.F.	5,000	3	2 00 S		10,000 00 -				10,230,00	-3.64%
30c	12" Painted Stripe	L.F.	5,000	5	2.00 S				\$ 10,000.00	5 1.95 6	9.750.00	4.00
30d	24" Painted Stripe	L.F.	1,500	2	3.00 \$		10,000 00	50		5 1.95 %	7,7,70,110	-2.50%
31	Thermoplastic Striping, Refer to note 1 below.	L.F.	1,500	S	3.50 S		4,500 00 5	3101	4,500.00	9 290 5	1,7331,00	-2.50%
32	Show-up Fee (when site is not ready)	(Allowance)	7,000		230 3		5,250 00	1.00		8 3.40 6	THE THE LINE	-3.33%
33	SUPPLEMENTAL MODEL (STORY)	EA	500	S	10000 +				- 30.00	3.40	-1,400,00	-2.86%
34	SUPPLEMENTAL WORK AUTHORIZATION (SWA)		500		150 00 \$		75,000.00	150 0	75,000,00	11500	50,000,00	
35		PER TON	14,000	S					1200000	6 145.00 S	2,000,00	-3.33%
	Millings (billed as a pass through at cost)	PER TON			150 00 \$	204.5	100,000 00	170000	2,100,000.00	1.5	100,000,00	
36	Delivery (per truckload) # of Deliveries forecast based on 15		3,230	\$	19 50 \$		63,375 00 .	70.30	4,400,000,00	145,00 8	2,030,000.00	-3.33%
	yard dump truck.	PER	1,150	S	100.00			-	63,375.00	18 50 S	60,125,86	-5.13%
		DELIVERY	494.30	4	150 00 \$	1	72,500 00 -	4 111 9	172,500.00			

Restore Disturbed Asphalt Paved Areas

Budget Milestones	Date	Original Estimated Annual Spend	O&M Budget	Capital Budget	disposal of waste materials Contract Increase Amount	Contract Total/Actual	Major Change/Issue
Contract Planning	April 2016	\$2,337,269.89	\$5,843,174.73	\$5,843,174.73		Annual Spend	
FY16		\$584,317.47	\$218,519.63	\$517,318.34	•	\$11,686,349.46	5 Year Contract, June 2016 - June 2021
FY17			+410,513.05	3317,310.34	1.41	5735,837.97	3 months of spend
FY18		\$2,337,269.89	\$ 1,318,426.21	\$ 2,202,786.78		\$3,521,212.99	Increased number of cave-ins and manhole failures from original projections
FY19 spent to date		\$2,337,269.89	\$ 2,159,745.80	\$ 2,392,049.90		\$4,551,795,70	Increased number of cave-ins and manhole failures from original projections
FY19 remaining	-	\$1,363,407,44	\$ 810,783.54	\$ 1,894,639.35		\$2,705,422,89	Increased number of cave-ins and manhole failures from original projections
-Y20		\$973,862.45	\$ 920,854.96	\$ 1,381,282.43	-	52,302,137.39	Increased number of cave-ins and manhole failures from original projections
Y21 (through June)		\$2,337,269.89	\$ 2,072,937.36	\$ 3,109,406.04	-	\$5,182,343.40	Increased number of cave-ins and manhole failures from original projections
		\$1,752,952,42	\$ 1,554,703.02	\$ 2,332,054.53		5 3,886,757.55	Increased number of cave-ins and manhole failures from original projections
Change Order	May 2019		\$ 4,491,364.28	\$ 6,737,046.41	\$ 11,228,410.69	C 22 014 224	Increased number of cave-ins and manhole failures from
tenewal Option	June 2021		£ 7.157.037.00	The second second	48,220,420,02	\$ 22,914,770.15	original projections
stimate at Completion			\$ 2,157,037.89	\$ 3,235,556.83	5 5,392,594,72		Contract renewal for 1 year
v/renewal						\$ 28,307,364.87	



Formal Bid and Award System

Award # 5 March 3, 2022

Type of Award Request: BID (IFB)

Requestor Name: Betancur, Maria A. **Requestor Phone:** (904) 665-7215

Project Title: Construction Services for the SR200 – William Burgess Blvd to Police Lodge

Rd - Trans – RW Project

Project Number: 8006348
Project Location: JEA
Funds: Capital

Budget Estimate: \$6,520,317.00

Scope of Work:

The scope of work for this solicitation includes construction services to install 11,832 LF of 16-inch PVC DR18 reclaimed water main by open cut method, 644 LF of 20-inch HDPE DR-11 under Main Waterway - Plummer Creek, 746 LF of 20-inch HDPE DR-11 under Minor Branch - Plummer Creek, 1,413 LF of 20-inch HDPE DR-11, 145 LF of 24-inch Jack-and-Bore under Three Rivers Drive, and 145 LF of 24-inch Jack-and-Bore under Edwards Rd in Nassau County. The new main will provide reclaimed water for irrigation service in the area.

JEA IFB/RFP/State/City/GSA#: 1410512246 Purchasing Agent: Kruck, Dan

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
	•	amy@dbehdd.com	13387 Bryan Road, Loxahatchee, FL 33470	(561) 508- 3713	\$5,027,563.06

Amount for entire term of Contract/PO: \$5,027,563.06

Award Amount for remainder of this FY: \$1,055,028.00

Length of Contract/PO Term: Project Completion

Begin Date: 06/08/2022

End Date: Project Completion (Expected: June 2023)

JSEB Requirement: Seven Percent (7%) Requirement

Comments on JSEB Requirements:

Crossbow Cattle (Sod) – 1.46%

M&J Striping, Inc. (Striping) -0.07%

DJ Contracting of Jacksonville, Inc. (Rock, Trucking, Sand, Fill) – 4.98%

D&J Erosion Control Specialists, Inc. (Silt Fencing) – 0.35%

Bullard Fence (FDOT Fence) – 0.28%

BIDDERS:

Name	Amount
D.B.E. MANAGEMENT, LLC dba DBE UTILITY SERVICES	\$5,027,563.06
T.G. UTILITY COMPANY, INC.	\$5,526,747.00
T B LANDMARK CONSTRUCTION, INC.	\$6,271,301.81
CALLAWAY CONTRACTING, INC.	\$6,898,470.00
GARNEY COMPANIES, INC.	\$7,225,585.00

Background/Recommendations:

Advertised on 12/21/2021. Nine (9) prime contractors attended the mandatory pre-bid meeting held on 01/11/2022. At Bid opening on 02/15/2022, JEA received five (5) Bids. D.B.E. Management, LLC dba DBE Utility Services is the lowest responsive and responsible Bidder. A copy of the Bid Form Workbook are attached as backup.

The award amount of \$5,027,563.06 is approximately 22.9% lower than the budget estimate due to the contractor self-performing the trenchless crossings, and the overestimating unsuitable soil replacement costs. The costs have been reviewed by the JEA project staff and deemed reasonable compared to past bids.

1410512246- Request approval to award a contract to D.B.E. Management, LLC dba DBE Utility Services for construction services for the Construction Services for the SR200 – William Burgess Blvd to Police Lodge Rd - Trans – RW project in the amount of \$5,027,563.06, subject to the availability of lawfully appropriated funds.

Manager:	DiMeo, Elizabeth A M	gr W/WW Project Management	
Director:	Conner, Sean M Dir W	/WW Project Engineering & Co	nstruction
VP:	Vu, Hai X VP Water V	Vastewater Systems	
APPROVALS:			
Chairman, Awa	ards Committee	Date	
Budget Represe	entative	 Date	

Addendum 3 - Appendix B - Bid Form 1410512246 Construction Services for SR200 - William Burgess Blvd to Police Lodge Rd - Trans - RW Project

Submit electronically through Zycus as described in Appendix C - Zycus Supplier Instructions

Company's Address: 13387 Bryan I	Road Loxabatchee FI	33470		
	Lozandienee, FL	22710		
License Number: CUC1225812				
Phone Number: <u>561-508-3708</u>	FAX No: <u>56</u>	1-508-3713	Email Address: <u>amy@dbehdd.co</u>	om
BID SECURITY REQUIREMEN	TS	TERM OF CONT	RACT	
None required✓ Certified Check or Bond Five Pe	roant (50/)	One Time Purc		
A Certified Check of Boild Five Fe	rcent (576)	Annual Require	- Project Completion	
SAMPLE REQUIREMENTS	SECTION		STATUTES CONTRACT BOY	ND
None required □	☐ No.	ne required		
Samples required prior to Bid Op		nd required 100% of Bi	d Award	
Samples may be required subseq	uent to			
Bid Opening				
QUANTITIES			INSURANCE REQUIREMI	ENTS
Quantities indicated are exacting				
Quantities indicated reflect the a			Insurance required	
Throughout the Contract period and	are subject to fluctuati	ion in accordance	A STATE OF THE STA	
with actual requirements.				
PAYMENT DISCOUNTS				
1% 20, net 30				
2% 10, net 30				
Other				
None Offered				
FLUTTER LIGHT DES			The Section Control of the Control o	
ENTER YOUR BID F	OR SOLICITATION	N 1410512246	TOTAL BID PRIC	CE
20.0		Bid Price for the Proje		
(en	iter total from cell G	59 in the Bid Workboo	ok)	
I have read and understood the				understand th
n the absence of a redacted copy i	ny proposal will be d	isclosed to the public '	'as-is".	
	DECDONE	DENT'S CERTIFICAT	FION	
By submitting this Response, the Re				es this Caliaba
hat the person signing below is an a	uthorized representative	ve of the Responding Co	ompany that the Company is lega	to this Solicita
lo business in the State of Florida, a				
pplicable). The Respondent also cer				
thics) of this Solicitation.	/	1 0		
We been serviced address.	7	1111		2/15/2022
We have received addenda	Handwritten S	Signature of Authorized	Officer of Company or Agent	2/15/2022 Deta
	Handwitten	agnature of Authorized	Company or Agent	Date
1 through3				
1 through 3				
Ithrough3	Dustin Ertle, I			



Formal Bid and Award System

Award #6 March 3, 2022

Type of Award Request: CHANGE ORDER **Requestor Name:** McDermet, David S. **Requestor Phone:** (904) 437-7197

Project Title: Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation

Project Number: 8007620
Project Location: JEA
Funds: Capital
Budget Estimate: \$100,000.00

Scope of Work:

This request is for an engineering firm to provide evaluation, design, and services during construction of the rehabilitation of both the reservoirs and Well No. 2 at the Lakeshore Water Treatment Plant.

The Lakeshore Water Treatment Plant, located at 2113 Hamilton Street, was constructed in the early 1950's. The plant includes source water wells, two ground storage reservoirs, a sodium hypochlorite system for disinfection and high service pumps for conveying treated water to the distribution system. The reservoirs were inspected in 2015, and recommendations were made for rehabilitation. This includes roof resurfacing, interior and exterior wall resurfacing, new access stairs, hatches and level transmitters. In addition, the pump, wellhead and pump building for Well No. 2 were damaged in 2016 and need to be replaced.

JEA IFB/RFP/State/City/GSA#: 086-17
CPA #: 168951
Purchasing Agent: Kruck, Dan

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
HAZEN AND SAWYER	Jean Paul Silva	jsilva@	6675 Corporate Center Pkw, Ste 330 Jacksonville, FL 32216	(561) 997-8070	\$91,660.00

Amount of Original Award:\$559,096.00Date of Original Award:10/05/2017Change Order Amount:\$91,660.00New Not-To-Exceed Amount:\$650,756.00

Length of Contract/PO Term: Project Completion

Begin Date: 10/01/2019

End Date: Project Completion (Expected: February 2024)

JSEB Requirement: Evaluation Criteria 5% Goal

Comments on JSEB Requirements:

Original Award

Comments on JSEB Requirements:

RE Holland 1.5%

Four Waters Engineering 5.9%

Complete Services Well Drilling 6.7%

This Amendment

N/A

Background/Recommendations:

Originally approved by Awards Committee on 10/05/2017 in the amount of \$559,096.00 to Hazen and Sawyer. A copy of the original award is attached as backup.

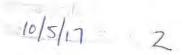
This award request is for a change order to the design contract of Hazen and Sawyer for the Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation project. During the initial design services for this project in 2018 an inspection was performed on the water reservoirs and the reservoirs were in better condition than expected. Hazen and Sawyer finished the design documents, and JEA delayed the construction portion until the FY22 and FY23 budget years. This award request is to bring the 100% design documents up to the current JEA 2022 standards. A copy of the quote from Hazen and Sawyer is attached for reference. The hourly rates for have been increased via the consumer-price-index (CPI) to determine the hourly rates for this amendment.

JEA paid Hazen and Sawyer \$414,172.00 out of the original award amount for the completion of the 100% design documents. The quote for this change order includes the cost for updating the prior design to current standards, and updating the fees for the previously approved services during construction (SDC) with the current hourly rates. The difference needed from the original award amount for this change order is \$91,660.00.

Request approval to award a change order to Hazen and Sawyer for additional engineering for the Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation project in the amount of \$91,660.00, for a new not-to-exceed amount of \$650,756.00, subject to the availability of lawfully appropriated funds.

Manager:	DiMeo, Elizabeth A M	gr W/WW Project Management	t
Director:	Conner, Sean M Dir W	WW Project Engineering & Co	onstruction
VP:	Vu, Hai X VP Water V	Vastewater Systems	
APPROVALS	:		
Chairman, Aw	vards Committee	Date	
Budget Repres	sentative	 Date	

CPA 168951





Formal Bid and Award System

Award #2

October 5, 2017

Type of Award Request:

PROPOSAL (RFP)

Request #:

1868

Requestor Name:

Gaines, Brian A.

Requestor Phone:

(904) 665-6246

Project Title:

Lakeshore WTP - Reservoir and Wellhead No. 2 Rehabilitation

Project Number:

8003982

Project Location:

JEA

Funds:

Capital

Award Estimate:

\$640,000.00

Scope of Work:

This request is for an engineering firm to provide evaluation, design, and services during construction of the rehabilitation of both the reservoirs and Well No. 2 at the Lakeshore Water Treatment Plant.

The Lakeshore Water Treatment Plant, located at 2113 Hamilton Street, was constructed in the early 1950's. The plant includes source water wells, two ground storage reservoirs, a sodium hypochlorite system for disinfection and high service pumps for conveying treated water to the distribution system. The reservoirs were inspected in 2015, and recommendations were made for rehabilitation. This includes roof resurfacing, interior and exterior wall resurfacing, new access stairs, hatches and level transmitters. In addition, the pump, wellhead and pump building for Well No. 2 were damaged in 2016 and need to be replaced.

JEA IFB/RFP/State/City/GSA#:

086-17

Purchasing Agent:

Kruck, Daniel Robert (Dan)

Is this a Ratification?:

NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Émail	Address	Phone	Amount
HAZEN AND SAWYER	Jean Paul Silva	Com	6675 Corporate Center Pkw, Suite 330 Jacksonville, FL 32216	(561) 997- 8070	\$559,096.00

Amount for entire term of Contract/PO:

\$559,096.00

Award Amount for remainder of this FY:

\$318,942.00

Length of Contract/PO Term:

Project Completion

Begin Date (mm/dd/yyyy):

10/15/2017

End Date (mm/dd/yyyy):

Project Completion

Renewal Options:

No

JSEB Requirement:

Evaluation Criteria (5% Goal)

Comments on JSEB Requirements:

RE Holland 1.5%; Four Waters Engineering 5.9%; Complete Services Well Drilling 6.7%

BIDDER:

Name	Amount	Rank
HAZEN AND SAWYER	\$559,096.00	1

Background/Recommendations:

Advertised 04/07/2017. Two (2) companies attended the pre-proposal meeting on 04/19/2017. At Proposal opening on 05/09/2017, JEA received one (1) Proposal. The Companies on the Proposers List were contacted about not attending the pre-proposal meeting and stated they lacked staff availability to attend/propose. The public evaluation meeting was conducted on 6/26/2017, and JEA deemed Hazen and Sawyer the most qualified to perform the work. A copy of the evaluation matrix is attached as backup.

The proposed total engineering fee of \$559,096.00 is twelve percent (12%) lower than estimated and is deemed to be reasonable. Compared to estimated construction costs of \$3,300,000.00, the proposed design fee of \$422,576.00 is 12.8% of construction cost, and services during construction (SDC) fee of \$136,520.00 is 4.1% of construction cost. A copy of the negotiated fees are attached as backup.

086-17 - Request approval to award a contract to Hazen and Sawyer for the Lakeshore WTP Reservoir and Well No. 2 Rehabilitation project in the amount of \$559,096.00, subject to the availability of lawfully appropriated funds.

Director: Marshall, Raynetta C. - Dir, WWW Grid Project Eng & Construction

VP: Roche, Brian J. - VP/GM Water Wastewater Systems

APPROVALS:

Chairman, Awards Committee

Date

Manager, Capital Budget Planning

Date

086-17Lakeshore WTP Reservoir and Wellhead No. 2 Rehabilitation

Vendor Rankings	Brian Gaines	Shawn Arnold	Hai Vu	Σ Rank	Overall Rank		
Hazen and Sawyer	.1	1	1	3	1		
Brian Gaines	Professional Staff Experience (30 Points)	Design Approach and Work Plan (40 Points)	Company Experience (20 Points)	Proximity to JEA (5 Points)	JSEB (5 Points)	Total	Rank
Hazen and Sawyer	25.58	25	19	3	4	76.58	1
Shawn Arnold	Professional Staff Experience (30 Points)	Design Approach and Work Plan (40 Points)	Company Experience (20 Points)	Proximity to JEA (5 Points)	JSEB (5 Points)	Total	Rank
	26.92	36	19	3	4	00.00	
Hazen and Sawyer	20.92	30		3	4	88.92	1
Hazen and Sawyer Hai Vu	Professional Staff Experience (30 Points)	Design Approach and Work Plan (40 Points)	Company Experience (20 Points)	Proximity to JEA (5 Points)	JSEB (5 Points)	Total	Rank

Experience

(20 Points)

19.17

Overall Averages

Hazen and Sawyer

Experience (30

Points)

26.69

and Work Plan

(40 Points)

31.33

Proximity to JEA

(5 Points)

3.00

JSEB (5 Points)

4.00

Total

84.19



ENGINEERING SERVICES PROPOSAL FOR JEA – Lakeshore WTP Amendment 1 – 2022 Reservoir Rehabilitation Restart

1/28/2022

1.0 Project Description

The Lakeshore Water Treatment Plant (WTP) has two above ground concrete water reservoirs, which were constructed in the 1950s and in need of structural assessment and rehabilitation to ensure continued service to the northern service grid. Hazen and Sawyer (Hazen) inspected the reservoirs and issued 100% drawings and specifications to JEA in 2018. Due to the reservoir condition being better than expected, JEA elected to postpone constructing improvements to the reservoirs for three years. The Lakeshore WTP Reservoir Rehabilitation project was moved to JEA's FY 2022 and 2023 budget.

The scope of services for Amendment 1, restart of the Lakeshore WTP Reservoir Rehabilitation project, will consist of updating the 100% drawings and specifications as well as completing the original Reservoir related Bidding and Services During Construction scope of services.

2.0 Scope of Services

Hazen and Sawyer (Hazen) will perform the following tasks in association with Amendment 1 to the Lakeshore WTP 2022 Reservoir Rehabilitation Restart.

<u>Task 1 – Project Management</u>

Hazen will provide the following services for the duration of the amendment.

- Project Coordination: Coordinate with JEA's Project Manager throughout the project via meetings, email and phone conversations to respond to questions, provide regular project updates, and discuss planning activities and other project requirements.
- Manage Budget: Manage the budget, schedule, and invoicing throughout the duration of project and conduct monthly conference calls with the team to coordinate activities and work effort.

Task 1 Deliverables:

- Project updates
- Meeting notes
- Invoices



- Lakeshore WTP January 28, 2022

<u>Task 2 – Update 100% Drawings and Specifications</u>

The purpose of this task is to review existing drawings and specifications (issued June 2018), update as discussed during the December 2021 coordination meeting (summarized below), and submit to JEA for final review. Contract Document updates include the following:

- a. Review / update specifications including 1) Reservoir B temporary blower system requirements and coordinate with the plant-wide construction sequence and 2) Revise substantial and final completion dates in tech specs to match JEA's RFP (300 days for Reservoir A and 100 days for Reservoir B)
- b. Review Building Code requirements and JEA standards for the design conformance to current code and standards; update drawings and specifications based on this review
- c. Adjust measurement and payment specification and bid form with adjusted quantities
- d. Review quantities of the JEA developed 100% Opinion of Probable Construction Costs (OPCC) and advise JEA of any changes or adjustments
- e. Assess condition of existing and exposed electrical conduits and determine if replacement is necessary. Assess condition of existing grounding. One site visit by qualified electrical personnel is anticipated for this task

Hazen will meet with JEA to review and discuss the revised 100% documents. Hazen will prepare and distribute meeting minutes as well as address minor comments based on JEA's review of the 100% submittal so as to develop and provide bid ready Contract Documents. Major comments or changes to the scope will be considered supplemental work.

Task 2 Deliverables:

• Six paper copies and one electronic copy of the 100% design documents submittal; drawings will be 22 x 34 inch "full size" sheets

<u>Task 3 – Allowance for Miscellaneous Items</u>

This task consists of an allowance for miscellaneous topics including the following:

- a. Unidentified or unplanned meetings
- b. Updates to Project Scoping Statement if requested during construction
- c. Coordination with JEA's chosen contractor (assume E&G Engineering) regarding P&ID drawings
- d. Permitting assistance

This is a JEA controlled allowance and no work is to be undertaken without the advanced approval of JEA.



January 28, 2022

Task 3 Deliverables:

TBD

<u>Task 4 – Bidding Services (original scope Task 7, relevant portions only)</u>

Task 4.1 – Pre-Bid Conference

Hazen will attend one pre-bid conference with prospective contractor(s) for the Reservoir Rehabilitation project.

Task 4.2 – Addenda Issuance

Hazen will provide timely responses to the inquiries of prospective bidders by assisting JEA with preparing written addenda to interpret and clarify the bidding documents. JEA will develop and distribute the addenda to the bidders.

Task 4.3 – Conformed Drawings and Specifications

Hazen will provide Conformed Drawings and Specifications to JEA. JEA will be responsible for the coordination and distribution of conformed copies of the construction contract.

Task 4 Deliverables:

- Addenda
- Six hard copies and one electronic copy of Conformed Construction Documents; drawings will be 22 x 34 inch "full size" sheets

Task 5 – Services During Construction (original scope Task 8, relevant portions only)

Task 5.1 – Construction Administration

Hazen will provide the following services during the construction phase of the Reservoir rehabilitation projects, consisting of the following:

- Contract Interpretations and Clarifications Hazen will issue technical interpretations and clarifications of the Construction Contract Documents in a timely manner, but not to exceed five working days of their request. Non-technical administrative interpretations will be issued by JEA.
- Change Orders Changes to the Contract may be the result of unforeseen conditions or interferences identified by the Contractor during the routine progress of work, inadvertent omissions (betterment) issues in the contract documents, or minor additional improvements requested by JEA after the project bid date. JEA will review and handle justifications of change orders. Hazen will provide a maximum of 24 hours in assistance to JEA with change orders. It is noted that Hazen's services do not include claims analysis or litigation support.



January 28, 2022

Task 5.2 – Submittal Review

Hazen will perform the following submittal review tasks.

- Shop Drawings Hazen will review and process shop drawings and other submittals which the Construction Contractor is required to submit within 15 working days of receipt of the submittal except for special items requiring longer review time if so noted in the Construction Contract Documents. The review will be for conformance with the design intent and compliance with the information presented in the Construction Contract Documents. Hazen will determine the acceptability of materials and equipment proposed by the Construction Contractor. Shop Drawing reviews will be limited to two reviews per submittal. If the second review cannot be approved the Contractor will fund the additional reviews.
- Asset Management Information Submittals Hazen will review asset management information submittals and completed work submitted as part of the Contractor's monthly invoice.

Task 5.3 – Record Drawings

Hazen will prepare and distribute to JEA within 60 days of the date of receipt of marked-up, red-lined field drawings from the Construction Contractor, two sets of 22 x 34 inch prints. Hazen will also deliver one AutoCAD electronic version of the record drawings in Hazen CAD standard and one pdf version of the record drawings. The record drawings will incorporate those changes made during the construction process, based on the marked-up prints, drawings and other data furnished by the Construction Contractor to Hazen.

Task 5.4 – Meetings

Hazen will attend construction meetings as follows:

- Pre-Construction Meeting Hazen will participate at one pre-construction meeting for the Reservoir Rehabilitation project to answer technical questions that may arise.
- Construction Progress Meetings Once every month, JEA will conduct a progress meeting with the Construction Contractor to review project status and identify issues that may affect the project schedule. Such issues may include suggested changes and/or methods to keep the project on schedule (except for the Construction Contractor's means, methods, techniques, sequences or procedures of construction). This Scope of Services has been based on one representative of Hazen attending the meetings, up to a maximum of 14 meetings. Additional staff from Hazen will also attend the meeting when required by JEA.

Task 5.5 – Specialty Inspection Services

Hazen will provide specialty inspection services during the construction phase of the projects. The inspections will be performed by the Engineer of Record and/or Structural Engineer for the duration of the construction project to observe construction and monitor work as needed. The inspections will provide observation of the construction to help determine whether the provisions of the Contract Documents are being fulfilled and to reasonably protect JEA against defects and deficiencies in the work of the Contractor. Compensation is based on an assumed 14-month project



JEA – Lakeshore WTP

Amendment 1 – 2022 Reservoir Rehabilitation Restart

January 28, 2022

duration, with a level of effort not to exceed three hours per week on average, a site visit substantial completion walkthrough and a site visit for final completion walkthrough. If the duration of construction is greater than 14 months at the average level of effort, additional effort for this task will be compensated under "Additional Services". In addition:

- Hazen, working principally through JEA's construction inspector, will assist the Contractor
 in the understanding the intent of the Contract Documents; and will assist in serving as
 JEA's liaison with the Contractor.
- Neither Hazen nor JEA will bear any responsibility for the Contractor's construction means or methods, nor have any responsibility for job site safety.

Task 5 Deliverables:

- Shop Drawing Reviews
- Responses to Contractor RFI's
- Substantial Completion Construction Punchlist
- Record Drawings and Closeout Documents

3.0 Schedule

The work described in Tasks 1 and Task 2 (Design) of this Scope of services will be completed in 60 calendar days. It is assumed Task 4 (Bidding timeline controlled by JEA) will be completed in 120 calendar days from completion of Tasks 1 and 2. Task 5 will be completed in 460 calendar days from completion of Task 4.

4.0 Key Assumptions

In addition to the assumptions identified under each task, the following assumptions have also been made:

- 1) JEA will complete update to 100% OPCC.
- 2) JEA will provide the blower for Reservoir B rehabilitation.
- 3) JEA personnel are coordinating with FDEP to adjust the permit timeline.
- 4) All drawings will be prepared using Revit or AutoCAD software using Hazen's drawing standards in effect at the time of the notice to proceed.
- 5) JEA will review all documents and provide written comments within two weeks of receipt by JEA unless otherwise noted.
- 6) A condition assessment is not included in the scope of this amendment.
- 7) Any sampling will be by JEA personnel.
- 8) Hourly rate task-level costs are estimates; Hazen reserves the right to transfer funds between hourly rate tasks and staff at different classifications with prior approval from JEA's project manager.
- 9) JEA will prepare Bid/Contract Documents (including front-end documents) incorporating Hazen's supplied technical specifications.
- 10) JEA will obtain any necessary property easements, including temporary easements. Surveys for easements and rights-of-way are not included in this authorization.



JEA – Lakeshore WTP

Amendment 1 – 2022 Reservoir Rehabilitation Restart

January 28, 2022

11) JEA will coordinate any necessary road blocking and traffic redirection for crane access to construction site.

- 12) JEA will coordinate any necessary protection of power lines and provide any necessary temporary light pole design.
- 13) The Construction Period is anticipated to last approximately 14 months from the Contractor's Notice-to-Proceed to Final Completion, and the fee is predicated upon such a schedule.
- 14) No hazardous materials or environmental mitigation activities are anticipated.
- 15) Mechanical improvement to the plant is limited to the addition of aerators. Design of alternate hydrogen sulfide removal system (other than aerators and upgrades to the existing ventilation) and pH adjustment are not included at this time. At an influent pH of 7.5, anticipated sulfides removal via aerators will be approximately 15% (with no pH adjustment upstream) and be limited to H₂S gas; aerators will not remove dissolved sulfide species (HS⁻ and S²⁻).
- 16) No emergency generators or other means of standby power are included.
- 17) The design of a new fence system and a site security system with card-activated slide gates is not included.
- 18) The design of temporary fencing for use during construction is not included and is assumed responsibility of Contractor.
- 19) A landscaping plan with irrigation is not included.
- 20) PLC programming and necessary HMI screen modifications under this project will be completed by JEA or [the Contractor's] System Integrator. Control strategies will be written by Hazen.

5.0 Method of Compensation

Tasks 1, 2, and 3 will be invoiced based on Lump Sum method of payment. Tasks 4 and 5 will be based on hourly rate, not-to-exceed (time and material) method of payment. The total amount for the JEA Lakeshore Reservoir Rehabilitation Restart is \$236,584. See Attachment 1 for breakdown of project fee and hourly rate by classification. If additional work is required that exceeds the total amount, an amendment will be provided and subject to approval by JEA prior to proceeding with the requested work. Progress payments will be submitted monthly and if hourly rate tasks are included will identify personnel, hours worked, hourly rate, and personnel classification. Rates will be annually adjusted based on the Consumer Price Index for All Urban Consumers (CPI-U).

ATTACHMENT 1

Engineering Fee Breakdown

JEA LAKESHORE WTP 2022 RESERVOIR REHABILITATION RESTART (AMENDMENT 1)														
Date: 1/	12/2022													
	Rate Category		Senior Associate 1	Senior Associate 1	Senior Associate 2	Senior Associate 2	Associate	Principal Engineer	Principal Designer	Admin	Hazen Total	Direct Expenses (estimated)		
	Rate	\$250	\$210	\$210	\$250	\$250	\$183	\$135	\$123	\$96	Hours	(estimateu)		
		PM	Structural	Various	QAQC	Electrical	Structural	Support Eng.	CAD	Clerical	Hours		Tot	al Fee (\$)
Task 1	Project Management	42	0	8	0	0	0	0	0	0	50	50	\$	12,230
		42		8							50	50	\$	12,230
Task 2	Update 100% Drawings and Specifications	40	14	10	7	22	8	36	44	12	205	800	\$	37,130
a.	Review/update specs (Res B temp blower and SC/FC)	20	8	2	2	2		8		12	54	200	\$	10,532
b.	Review/update specs and drawings (Building Code/JEA Standards)	8	4	2	4		8	24	40	12	102	200	\$	15,236
c.	Update measurement and payment spec	2		2	1						5	100	\$	1,270
d.	Review JEA provided OPCC	8	2	2		2		4			18	100	\$	3,980
e.	Electrical conduit / grounding condition assessment	2		2		18			4		26	200	\$	6,112
Task 3	Allowance for Miscellaneous Items	16	16	16	0	16	0	40	8	8	120	500	\$	22,372
		16	16	16		16		40	8	8	120	500	\$	22,372
Original S	Original Scope Items to be Completed During This Effort		92	0	0	48	232	264	40	196	988	2,700	\$	164,852
Task 4 Bio	Task 4 Bidding (see original scope Task 7)		12			12		72	16	32	164	200	\$	25,480
Task 5 Se	rvices During Construction (see original scope Task 8)	96	80			36	232	192	24	164	824	2,500	\$	139,372
Total		214	122	34	7	86	240	340	92	216	1363	\$ 4,050	\$	236,584

Senior Associate 1 Roles: Mechanical, Structural Senior Associate 2 Roles: PM, Electrical, QAQC



Formal Bid and Award System

Award #7 March 3, 2022

Type of Award Request: CONTRACT INCREASE

Request #: 233

Requestor Name: Veasey, Nancy A. - Dir Special Projects

Requestor Phone: (904) 665-6439

Project Title: Furniture Procurement, Delivery and Service for New Headquarters

Project Number: 8006820
Project Location: JEA
Funds: Capital

Budget Estimate: \$2,000,000.00 (Workstations, Standard offices, Task Chairs) and \$3,000,000.00

(Conference, Collaboration, Training, Other Ancillary)

Scope of Work:

The purpose of this Request for Proposal (RFP) is to evaluate and select a firm ("Firm" or "Company" or "Proposer") from the prior Request for Qualifications, 101180 Furniture Procurement, Delivery and Service for New JEA Headquarters Qualified Category List in order for JEA to select the best value for providing furniture initially including workstations and standard office furniture. "Best Value" means the highest overall value to JEA with regards to pricing, quality, warranty and service, ability to meet project timeline and other selection criteria.

JEA established Qualified Category List(s) for Furniture Procurement for the new headquarters with four (4) firms awarded a position on the list. The Qualified Category List will be utilized to seek response packages and bids for specified workstation, bench design and for standard office furniture. JEA intends to select one firm to provide the furniture outlined in the technical specification and may also award the majority of the ancillary and support furniture needs to the same firm. JEA reserves the right to procure all or portions of the ancillary furniture from other firms on the qualified list. The terms and conditions for this solicitation were included and agreed upon by the qualified firms during Request for Qualifications 101180.

JEA IFB/RFP/State/City/GSA#: 1410376448
Purchasing Agent: Selders, Elaine

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	email	Address	Phone	Amount
PERDUE, INC.	Justin Perez	justin.perez@perdueoffice.com	5 W Forsyth Street, Suite 100, Jacksonville, FL 32202		\$1,272,654.75

Amount of Original Award:\$1,327,101.95Date of Original Award:11/18/2021Change Order Amount:\$1,272,654.75

List of Previous Change Order/Amendments:

CPA#	Amount	Date
202226	\$680,820.85	01/20/2022

New Not-To-Exceed Amount: \$3,280,577.55 **Length of Contract/PO Term:** Project Completion

Begin Date (mm/dd/yyyy): 12/01/2021

End Date (mm/dd/yyyy): Project Completion (Expected: September 30, 2022)

JSEB Requirement: N/A – Optional

Background/Recommendations:

Originally awarded and approved by the Awards Committee on 11/18/2021 to Perdue, Inc. for the first phase of furniture purchases, in the amount of \$1,327,101.95. On 01/20/2022, a contract increase was approved in the amount of \$680,820.85 for the second phase of furniture purchases for a revised not to exceed amount of \$2,007,922.80. The previous awards are attached as backup.

This contract increase is for the purchase of phase three, which includes the majority of the ancillary furniture. The ancillary items include furniture for board/multi-purpose room, much of customer center area, additional workstations for pre-service, security offices and special purpose office spaces, agile training rooms, customer care training rooms, innovation lab, tech depot, work cafés (breakrooms), respite/quiet rooms, executive office suite areas, collaboration spaces including open collaboration, team and huddle rooms, small waiting and gathering areas and phone rooms. Furniture remaining to be ordered includes a portion of the lobby furniture, outdoor furniture, lockers, standard file cabinets, limited office and reception furniture, and other miscellaneous items. The additional ancillary furniture will be grouped in upcoming phases.

Documentation for this award includes a summary spreadsheet attached as backup showing room or space descriptions by building level in the third phase order. Additionally, Perdue has prepared a highly detailed invoice summary showing how the order will be filled and delivered by floor level for installation. This document is 285 pages and available for review through Procurement. Perdue requires a fifty percent (50%) deposit to place the order. The total amount for this phase is \$1,272,654.75 and a deposit of \$636,327.38 is required upon placement of the order.

Request approval to award a contract increase to Perdue, Inc. for furniture procurement, delivery and service for the new JEA headquarters for the third phase for a total amount of \$1,272,654.75, for a new not-to-exceed amount of \$3,280,577.55, subject to the availability of lawfully appropriated funds.

Chief: APPROVA		oly Chain & Operations Support
	Awards Committee	Date
Budget Rep	presentative	Date

Date: 01/20/2022 Item# 3



Formal Bid and Award System

Award #3 January 20, 2022

Type of Award Request: CONTRACT INCREASE

Request #: 233

Requestor Name: Veasey, Nancy A. - Dir Special Projects

Requestor Phone: (904) 665-6439

Project Title: Furniture Procurement, Delivery and Service for New Headquarters

Project Number: 8006820
Project Location: JEA
Funds: Capital

Budget Estimate: \$2,000,000.00 (Workstations, Standard offices, Task Chairs) and \$3,000,000.00

(Conference, Collaboration, Training, Other Ancillary)

Scope of Work:

The purpose of this Request for Proposal (RFP) is to evaluate and select a firm ("Firm" or "Company" or "Proposer") from the prior Request for Qualifications, 101180 Furniture Procurement, Delivery and Service for New JEA Headquarters Qualified Category List in order for JEA to select the best value for providing furniture initially including workstations and standard office furniture. "Best Value" means the highest overall value to JEA with regards to pricing, quality, warranty and service, ability to meet project timeline and other selection criteria.

JEA established Qualified Category List(s) for Furniture Procurement for the new headquarters with four (4) firms awarded a position on the list. The Qualified Category List will be utilized to seek response packages and bids for specified workstation, bench design and for standard office furniture. JEA intends to select one firm to provide the furniture outlined in the technical specification and may also award the majority of the ancillary and support furniture needs to the same firm. JEA reserves the right to procure all or portions of the ancillary furniture from other firms on the qualified list. The terms and conditions for this solicitation were included and agreed upon by the qualified firms during Request for Qualifications 101180.

JEA IFB/RFP/State/City/GSA#: 1410376448
Purchasing Agent: Selders, Elaine L

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
PERDUE, INC.	Justin Perez	instin paras@pardusaffias asm	5 W Forsyth Street, Suite 100, Jacksonville, FL 32202	904-256- 5548	\$680,820.85

Amount of Original Award: \$1,327,101.95

Date of Original Award: 11/18/2021

Contract Increase Amount: \$680,820.85

New Not-To-Exceed Amount: \$2,007,922.80

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 12/01/2021

End Date (mm/dd/yyyy): Project Completion (Expected: September 30, 2022)

JSEB Requirement: N/A - Optional

Background/Recommendations:

Originally awarded and approved by the Awards Committee on 11/18/2021 to Perdue, Inc. for the first phase of furniture purchases, in the amount of \$1,327,101.95. The original award is attached as backup.

JEA intends to purchase the furniture in phases. During the first phase, the majority of the items for the standard workstations, bench workstations and portions of items for the standard offices were purchased. In the second phase, the task chairs, majority of conference tables and chairs, standard office storage items and tables and chairs for Level 2 traditional training rooms will be purchased. Additional ancillary furniture will be grouped in upcoming phases.

Documentation for this award includes a summary spreadsheet attached as backup showing items, unit prices and quantities in the second phase order. Additionally, Perdue has prepared a highly detailed invoice summary showing how the order will be filled and delivered by floor level for installation. This document is 76 pages and available for review through Procurement. Perdue requires a fifty percent (50%) deposit to place the order. The total amount for this phase is \$680,820.85 and a deposit of \$340,410.43 is required upon placement of the order.

Request approval to award a contract increase to Perdue, Inc. for furniture procurement, delivery and service for new JEA headquarters for the second phase for a total amount of \$680,820.85, for a new total not-to-exceed amount of \$2,007,922.80, subject to the availability of lawfully appropriated funds.

1/20/22

Director: Veasey, Nancy A. - Dir Special Projects

VP: McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:

Chairman, Awards Committee Date

Laure A Whitmer 1/20/22

Budget Representative Date



Formal Bid and Award System

Award #8 November 18, 2021

Type of Award Request: REQUEST FOR PROPOSAL (RFP)

Request #:

233

Requestor Name:

Veasey, Nancy A. - Dir Special Projects

Requestor Phone:

(904) 665-6439

Project Title:

Furniture Procurement, Delivery and Service for New Headquarters

Project Number:

8006820

Project Location:

JEA

Funds:

Capital

Budget Estimate:

\$2,000,000.00 (Workstations, Standard offices, Task Chairs)

Scope of Work:

The purpose of this Request for Proposal (RFP) is to evaluate and select a firm ("Firm" or "Company" or "Proposer") from the prior Request for Qualifications, 101180 Furniture Procurement, Delivery and Service for New JEA Headquarters Qualified Category List in order for JEA to select the best value for providing furniture initially including workstations and standard office furniture. "Best Value" means the highest overall value to JEA with regards to pricing, quality, warranty and service, ability to meet project timeline and other selection criteria.

JEA established Qualified Category List(s) for Furniture Procurement for the new headquarters with four (4) firms awarded a position on the list. The Qualified Category List will be utilized to seek response packages and bids for specified workstation, bench design and for standard office furniture. JEA intends to select one firm to provide the furniture outlined in the technical specification and may also award the majority of the ancillary and support furniture needs to the same firm. JEA reserves the right to procure all or portions of the ancillary furniture from other firms on the qualified list. The terms and conditions for this solicitation were included and agreed upon by the qualified firms during Request for Qualifications 101180.

JEA IFB/RFP/State/City/GSA#:

1410376448

Purchasing Agent:

Selders, Elaine L.

Is this a Ratification?:

NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
PERDUE, INC.	Justin Perez	instin perez@perdueoffice.com	5 W Forsyth Street, Suite 100, Jacksonville, FL 32202	904-256- 5548	\$1,327,101.95

Amount for entire term of Contract/PO:

\$1,327,101.95

Award Amount for remainder of this FY:

\$1,327,101.95

Length of Contract/PO Term:

Project Completion

Begin Date (mm/dd/yyyy):

12/01/2021

End Date (mm/dd/yyyy):

Project Completion (Expected: September 30, 2022)

JSEB Requirement:

N/A - Optional

PROPOSERS:

Name	Amount	Rank
PERDUE, INC.	\$2,705,088.37	1
WORKSCAPES, INC.	\$2,995,610.00	2
OFFICE ENVIRONMENTS & SERVICES	\$2,628,010.00	3

Background/Recommendations:

Advertised on 07/30/2021. At proposal opening on 08/24/2021, JEA received three (3) proposals. JEA evaluated the proposals based on pricing, quality, serviceability, timeline, ancillary furniture information, employee purchase program platforms and mockup presentations deeming Perdue, Inc. the most highly qualified company. A copy of the evaluation results and bid leveling document are attached as backup. The amounts shown on the bid leveling document and above in some instances included multiple options for the same item, examples are task and guest chairs, and additional optional items.

JEA will purchase furniture in phases. The first phase, which is considered in this award is the majority of items for the standard workstations, bench workstations and portions of items for the standard offices. There are 285 standard workstations, 174 standard bench workstations and 58 standard offices. The original proposal quantities were adjusted during the floor and furniture layouts during the interior design phase. The items not yet included for standard workstation and offices are storage options for the standard offices, accessories and task chairs. These items are being further reviewed and quantified. The estimated budget amount above was inclusive of the standard offices, workstations and task chairs. Additional workstations, office furniture, accessories and ancillary furniture and task chairs will be selected in the near future.

After determining the most highly qualified company, the JEA team reviewed alternate monitor arms, alternate storage options for bench workstations, alternate desktop power modules with wireless charging and miscellaneous accessories. The team also selected a less expensive table for the standard offices and selected a mid-priced guest chair from those proposed and presented by the top ranked firm.

Documentation for this Award includes a summary spreadsheet attached as backup showing items, unit prices and quantities in the first phase order. Additionally, Perdue has prepared a highly detailed invoice summary showing how the order will be filled and delivered by floor level for installation. This document is 81 pages and available for review through Procurement. Perdue requires a fifty percent (50%) deposit to place the order. The total amount for this phase is \$1,327,101.95 and a deposit of \$663,550.98 is required upon placement of the order. The award summary is slightly different than the individual unit item prices based on how the workstations and bench stations are grouped to be installed, i.e. groupings are typically four (4), six (6) or eight (8) workstations and each grouping requires appropriate end panels and common fence lengths.

1410376448 – Request approval to award a contract to Perdue, Inc. for Furniture Procurement, Delivery and Service for New Headquarters for the first phase for a total amount of \$1,327,101.95, subject to the availability of lawfully appropriated funds.

Director:

Veasey, Nancy A. - Dir Special Projects

VP:

McElroy, Alan D. - VP Supply Chain & Operations Support

11/18/2

APPROVALS:

Chairman, Awards Committee

Date

11/18/21

Budget Representative

Date

JEA		
ANCILLARY ALL FLOORS 3RD ORD	ER	
MANUFACTURER:	Steelcase	
DEALER:	Perdue	
ITEM/Description		
1ST FLOOR	<u>Quantity</u>	<u>Total Cost</u>
MULTIPURPOSE ROOM 120C	1	\$98,390.52
CUSTOMER SOLUTION 113	1	\$16,089.07
157A/ 157B & 159 AREAS	1	\$8,110.84
158B/146/PHONE 149 AREAS	1	\$17,632.19
115/ 110B/110/110A/160B/162 AREAS	1	\$43,781.91
SECURITY 163	1	\$4,620.09
2ND FLOOR	<u>Quantity</u>	<u>Total Cost</u>
AGILE 217	1	\$19,679.43
AGILE TRAINING 225	1	\$18,543.23
INNOVATION STUDIO 216	1	\$22,944.63
CORRIDOR 219/ PANTRY 215/ PHONE ROOM/ PRODUCTION ROOM 212	1	\$31,118.22
3RD FLOOR	<u>Quantity</u>	<u>Total Cost</u>
HUDDLE ROOMS/ CORRIDER 351/ PHONE ROOMS/ RESPITE	1	\$56,119.76
COLLABORATION 344	1	\$12,461.91
TRAINING 352	1	\$24,427.43
TRAINING 353	1	\$12,009.72
WORK CAFÉ 350/ MULTIPURPOSE TRASH BIN	1	\$21,799.97
4TH FLOOR	<u>Quantity</u>	<u>Total Cost</u>
FIX AND BUILD 441	1	\$9,844.95
		7.77
HUDDLE/PHONE ROOMS/OPEN AREAS	1	\$51,175.21
RESPITE/QUIET 458	1	\$10,778.33
TECH DEPOT	1	\$25,784.66
WORK CAFÉ	1	\$18,724.62
GROUP WORK AREA	1	\$67,619.40

5TH FLOOR	Quantity	Total Cost
<u> </u>	Quantity	Total Gost
GROUP WORK AREA	1	\$59,368.55
OPEN COLLAB/ HUDDLE ROOMS/ PHONE ROOMS	1	\$37,070.77
RESPITE/QUIET 558	1	\$8,795.28
OPEN WORK AREA/ TEAMS ROOMS	1	\$32,300.71
WORK CAFÉ	1	\$18,724.62
6TH FLOOR	<u>Quantity</u>	<u>Total Cost</u>
GROUP WORK AREA	1	\$49,588.67
CORRIDOR 609A/ HUDDLE ROOMS	1	\$11,267.56
INFO SECURITY 641	1	\$7,689.34
OPEN LOUNGE/ OPEN COLLAB/ OPEN OFFICE 618/ OPEN WORK 615/ PHONE		
ROOMS/ TEAM ROOMS/ WELLNESS 651	1	\$58,218.60
WORK CAFÉ	1	\$18,724.62
RESPITE/QUIET 658	1	\$10,778.33
7TH FLOOR	Quantity	Total Cost
EXEC. ADMIN	1	\$58,188.19
EXEC OFFICES	1	\$102,384.50
PANTRY/ CONFERENCE SOFAS/WORK CAFÉ/WAITING AREAS	1	¢7 <i>1</i> E0E 71
CAFE/ WAITING AREAS	1	\$74,585.71
FRIEGHT		\$3,123.21
DESIGN TIME		\$28,015.00
LABOR		\$102,175.00
GRAND TOTAL		\$1,272,654.75



Formal Bid and Award System

Award #8 March 3, 2022

Type of Award Request: PROPOSAL (RFP)

Request #: 93

Requestor Name: Bacmeister, Jennifer O.

Requestor Phone: (904) 665-4656

Project Title: Progressive Design-Build Services for the Commonwealth Service Center (CWSC)

Renovation Project

Project Number: 8006793
Project Location: JEA
Funds: Capital

Budget Estimate: \$6,201,400.00 (Total Budget)

Scope of Work:

The purpose of this Request for Proposals (RFP) is to evaluate and select a vendor that can provide Progressive Design Build services for the Commonwealth Service Center (CWSC) renovation project (collectively, the "Work" or "Services"). The scope of work for this project includes architectural, engineering, and contractor services which will be competitively sourced as a single team through this solicitation process. The selected team will create a 10% drawing (floor plan), to be approved by all stakeholders. The 30%, 60%, 90% and 100% design documents will then be created, with stakeholder review at each phase. The required construction documents will be forwarded to Capital Planning for information and review.

Long Lead Items: Facilities will purchase long lead and expensive capital items to reduce the construction timeline, where such purchase is beneficial to JEA.

The scope of services includes, but is not necessarily limited to, the items listed below. The following items are considered basic to the RFP response:

- 1. Complete reformatting and upgrading of all occupied spaces, including offices, classrooms, conference rooms, maintenance and testing shops, open areas, break rooms and restrooms; includes finishes, furniture and fixtures.
 - The Admin area will be separate from the Service Area, Warehouse Area and Train Well
 - Adequate storage is to be provided for materials, equipment, and record-keeping
 - The former tax collector's office will become part of the JEA space
 - Restrooms must be sized to accommodate crew assignments, not average building occupancy
- 2. Upgrade of warehouse doors and storefront systems (including windows) to current wind-load standards.

JEA IFB/RFP/State/City/GSA#: 1410334650
Purchasing Agent: Selders, Elaine L.

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
THE	Ken		111Riverside	(904)	
HASKELL	-	Kenneth.Boeser@haskell.com	Ave,	357-	\$527,961.00
COMPANY	Boeser		Jacksonville, FL	4250	

Amount for entire term of Contract/PO: \$527,961.00 **Award Amount for remainder of this FY:** \$159,300.00

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 04/01/2022

End Date (mm/dd/yyyy): Project Completion (Phase 1 Design Expected: October 2023)

JSEB Requirement: Five Percent (5%) Evaluation Criteria

Comments on JSEB Requirements:

Baker Consulting & Engineering, LLC – Structural Engineering – 5%

PROPOSERS:

Name	Amount	Rank
THE HASKELL COMPANY	\$527,961.00	1
AULD & WHITE CONSTRUCTORS, LLC	N/A	2
FORESIGHT CONSTRUCTION GROUP, INC.	N/A	3
MARAND BUILDERS, INC.	N/A	4

Background/Recommendations:

Advertised on 06/07/2021. Fifteen (15) prime companies attended the mandatory pre-proposal meeting held on 06/17/2021. At proposal opening on 07/07/2021, JEA received four (4) Proposals. The public evaluation meeting was held on 09/24/2021 and JEA deemed The Haskell Company the most qualified to perform the work. A copy of the evaluation results and negotiated Phase 1 fees are attached as backup.

Negotiations with The Haskell Company were successfully completed for Phase 1 of this project. This project will be delivered using the progressive design-build method, splitting the effort into two (2) phases. Phase 1 includes engineering design up to sixty percent (60%), support services and pre-construction services, which is approximately nine percent (9%) of the estimated project cost. The Phase 1 negotiated fees proposed were compared with similar facilities design projects and have been deemed reasonable. After Phase 1, a Guaranteed Maximum Price (GMP) will be established, with an option of an "off ramp" if construction pricing is not acceptable. Upon acceptance of the GMP and subsequent approval of the Awards Committee, Phase 2 will commence. Phase 2 will include the final design, services during construction (SDC) and construction costs.

1410334650 – Request approval to award a contract to The Haskell Company for the Progressive Design-Build Services for the Commonwealth Service Center (CWSC) Renovation Project in the amount of \$527,961.00, subject to the availability of lawfully appropriated funds.

Manager: Crane, Christopher T. - Manager, Facilities Operations
 Director: Brunell, Baley L. - Director, Facilities & Fleet Services
 VP: McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:	
Chairman, Awards Committee	Date
Budget Representative	Date

Specification: 1410334650 - Progressive Design-Build Services for the Commonwealth Service Center (CWSC) Renovation Project

Vendor Rankings	M. Poteet	J. Bacmeister	T. Skinner	B. Brunell	T. Wiertsema	Σ Rank	Rank
Auld & White	3	1	2	2	1	9	2
Foresight	2	2	3	3	3	13	3
Haskell	1	3	1	1	2	8	1
Marand	4	4	4	4	4	20	4

M. Poteet	Professional Staff Experience (25 Points)	Design Approach and Work Plan (40 Points)	Company Experience (30 Points)	JSEB (5 Points)	Total	Rank
Auld & White	18.89	32	27	4	81.89	3
Foresight	21.67	34.00	25.00	4	84.67	2
Haskell	18.56	37.00	27.00	4	86.56	1
Marand	16.00	22.00	5.00	0	43	4

J. Bacmeister	Professional Staff Experience (25 Points)	Design Approach and Work Plan (40 Points)	Company Experience (30 Points)	JSEB (5 Points)	Total	Rank
Auld & White	21.22	35	28	4	88.22	1
Foresight	22.11	29.00	28.00	4	83.11	2
Haskell	20.22	35.00	20.00	4	79.22	3
Marand	19.33	33.00	20.00	0	72.33	4

T. Skinner	Professional Staff Experience (25 Points)	Design Approach and Work Plan (40 Points)	Company Experience (30 Points)	JSEB (5 Points)	Total	Rank
Auld & White	17.89	26	26	4	73.89	2
Foresight	19.22	21.00	20.00	4	64.22	3
Haskell	18.33	29.00	24.00	4	75.33	1
Marand	15.11	13.00	16.00	0	44.11	4

B. Brunell	Professional Staff Experience (25 Points)	Design Approach and Work Plan (40 Points)	Company Experience (30 Points)	JSEB (5 Points)	Total	Rank
Auld & White	17.89	30	21	4	72.89	2
Foresight	21.00	26.00	19.00	4	70	3
Haskell	20.89	27.00	26.00	4	77.89	1
Marand	17.00	24.00	19.00	0	60	4

T. Wiertsema	Professional Staff Experience (25 Points)	Design Approach and Work Plan (40 Points)	Company Experience (30 Points)	JSEB (5 Points)	Total	Rank
Auld & White	18.72	31	26	4	79.72	1
Foresight	15.06	22	21.00	4	62.06	3
Haskell	16.78	32	22.00	4	74.78	2
Marand	14.28	17	20.00	0	51.28	4



JEA - CWSC RENOVATIONS PHASE I SERVICES FEE PROPOSAL

PROJECT NAME: JEA CWSC Renovations PROJECT #: 4400606

DESCRIPTION: Phase I Fee Proposal PROJECT DIRECTOR: John Albro

LOCATION: JACKSONVILLE, FLORIDA SNR DESIGN MANAGER: Bet Lentz

PRECONSTRUCTION MN© Brent McMaster

DIRECT COSTS	TOTALS
PRECONSTRUCTION SERVICES - THE HASKELL COMPANY PRECONSTRUCTION PRECONSTRUCTION SUBTOTA	\$183,929 AL \$183,929
ARCHITECTURAL/ENGINEERING SERVICES DESIGN SERVICES - HASKELL A/E VDC - LASER SCANNING DESIGN SERVICES SUBTOTA	\$232,520 \$9,000 \$241,520
ALLOWANCES STRUCTURAL REVIEW - HASKELL A/E CIVIL REVIEW - HASKEL A/E (40HRS @ \$137/HR) PRECONSTRUCTION VALUE ENGINEERING/ALTERNATE PRIC SENIOR ESTIMATE (80HRS @ \$130/HR) PRECONSTRUCTION MANAGER (20HRS @ \$107/HR)	\$28,000 \$5,480 N0 \$12,540
ALLOWANCES SUBTOTA	\$46,020
TOTAL DIRECT COST	S \$471,469
PROFESSIONAL LIABILIT 1.20 DESIGN-BUILD FEE 6.50 CONTINGENCY 3	¥ = 7 = = =
TOTAL	\$527,961

Notes

- 1) Pricing based on lump sum Phase I Services engagement agreement.
- 2) Fee proposal based on estimated hours as qualified herein. Please reference Scope of Services for further clarification.
- 3) Preconstruction services proposal based on estimate deliverables at 30% and 60% as further described in the attached Scope of Services.
- 4) Design services proposal based on design deliverables at 10%, 30%, and 60% as defined herein.



Formal Bid and Award System

Award #9 March 3, 2022

Type of Award Request: REQUEST FOR PROPOSALS (RFP)

Request #: 280

Requestor Name: Ventura, Mildred - Contract Specialist

Requestor Phone: (904) 665-5201

Project Title: Facilities Landscaping – Open Market

Project Number: HE30801 and D0101 (KGS)

Project Location: JEA **Funds:** O&M

Budget Estimate: \$1,844,855.00

Scope of Work:

The purpose of this Request for Proposal (RFP) is to evaluate and select a vendor or multiple vendors that can provide economical pricing for basic landscape maintenance and chemical spraying. These services must be performed in a safe manner, and the results must be aesthetically pleasing as these facilities represent JEA to the rate-paying public. Landscaping will be performed at approximately 918 JEA facilities located in Duval, Nassau, St. Johns and Clay Counties in Florida, including St. Johns River Power Park (SJRPP) and Pelotes Island. These locations include exteriors of buildings, lots, lift stations, electric substations, wells, water treatment plants, wastewater treatment plants, communication towers, road access, fences, areas around electric power lines, highways, the exterior of generating plants, and trails. Contracts are to be awarded as follows: Contract number 1 (District 2), Contract number 2 (District 3a, 3b and 3c) and Contract number 3 (District 6ESS, District 7, SJRPP and Kennedy Generating Station (KGS).

JEA IFB/RFP/State/City/GSA#: 1410460646

Purchasing Agent: Selders, Elaine L.

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
A SANCTUARY HOUSE OF NORTH FLORIDA INC.	Jasper Hatten	hattenj@att.net	12131 Cancun Drive, Jacksonville, FL 32225	904- 477- 3743	\$113,448.00
	Zakee Furqan	Zakee0126@gmail.com	7232 Smyrna St, Jacksonville, FL 32208	904- 343- 9714	\$442,745.70
J&D MAINTENANCE AND SERVICES OF NORTH FLORIDA, LLC	Rodney Evans	office@janddmaintenance.com	4779 Phyllis St, Jacksonville, FL 32254	904- 384- 8411	\$1,656,919.34

Amount for entire term of Contract/PO: \$2,213,113.04

Award Amount for remainder of this FY: \$1,459,404.80 and \$27,680.00 (KGS)

Length of Contract/PO Term: One (1) Year w/Two (2) – One (1) Yr. Renewals

Begin Date (mm/dd/yyyy): 04/01/2022 **End Date (mm/dd/yyyy):** 03/30/2023

Renewal Options: YES - Two (2) - One (1) Yr. Renewals

JSEB Requirement: N/A – Optional Freedom Landscape and A Sanctuary House are both JSEB's.

PROPOSERS:

DISTRICT 2D RANKINGS					
Name	Amount	Score			
A SANCTUARY HOUSE OF NORTH FLORIDA INC.	\$113,448.00	91.00			
FREEDOM LANDSCAPE AND LAWN MAINTENANCE INC.	\$120,795.00	85.45			
EAGLE LAWN CARE OF N.E. FLORIDA, INC.	\$141,741.54	84.35			
J&D MAINTENANCE AND SERVICES OF NORTH FLORIDA, LLC	\$234,720.00	69.00			
DISTRICT 3A, 3B, 3C RANKINGS					
Name	Amount	Score			
FREEDOM LANDSCAPE AND LAWN MAINTENANCE INC.	\$442,745.70	89.10			
EAGLE LAWN CARE OF N.E. FLORIDA, INC.	\$608,953.35	79.95			
J&D MAINTENANCE AND SERVICES OF NORTH FLORIDA, LLC	\$791,670.00	73.56			
A SANCTUARY HOUSE OF NORTH FLORIDA INC.	Disqualified				
DISTRICT 6ESS, 7WTR, SJRPP, KGS RANKI	NGS				
Name	Amount	Score			
J&D MAINTENANCE AND SERVICES OF NORTH FLORIDA, LLC	\$1,656,919.34	100.00			
FREEDOM LANDSCAPE AND LAWN MAINTENANCE INC.	\$1,697,802.88	89.10			
EAGLE LAWN CARE OF N.E. FLORIDA, INC.	No B	id			
A SANCTUARY HOUSE OF NORTH FLORIDA INC.	Disqual	ified			

Background/Recommendations:

Advertised on 11/01/2021. Seven (7) prime companies attended the optional pre-proposal meeting held on 11/09/2021. At Proposal opening on 11/23/2021, JEA received four (4) Proposals. This solicitation was split into three different sections: District 2D, District 3A, 3B, 3C and District 6ESS, 7WTR, SJRPP and KGS. A Sanctuary House of North Florida Inc. was disqualified from the two larger districts due to not meeting the minimum qualifications. JEA evaluated the companies on rates, company experience, and quality metrics. A Sanctuary House of North Florida Inc., Freedom Landscape and Lawn Maintenance Inc. and J&D Maintenance and Services of North Florida, LLC have been deemed the highest evaluated Responsive and Responsible Proposers. A copy of the Proposal Forms, Proposal Workbook Summaries and Evaluation Results are attached as backup.

The award amount of \$2,213,113.04 is approximately eighteen percent (18%) higher than the budgeted estimate. When compared to the previous contract there was a thirty-six percent 36% normalized increase in rates (\$528,467.04) and the addition of 63 sites requiring services (\$206,392.00) driving the overall contract increase of \$734,859.04. Additional funding for FY22 is being utilized from an approved one-time project.

1410460646 – Request approval to award a contract to A Sanctuary House of North Florida Inc. in the amount of \$113,448.00, Freedom Landscape and Lawn Maintenance Inc. in the amount of \$442,745.70 and J&D Maintenance and Services of North Florida, LLC in the amount of \$1,656,919.34 for Facilities Landscaping – Open Market for a total not-to-exceed amount of \$2,213,113.04, subject to the availability of lawfully appropriated funds.

Budget Represent	tative	 Date				
Chairman, Award	ds Committee	Date Date				
APPROVALS:						
VP:	McElroy, Alan D VP Supply Chain & Operations Supp					
Director:	Brunell, Baley L Dir Facilities & Fleet Services					
Manger: Crane, Christopher T Manager, Facilities Operations						

ADDENDUM 2 - APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE – OPEN MARKET

ROPOSER NAME: A Sanctuary House of N. FL Inc.	
USINESS ADDRESS: 12131 Cancun Drive	
TTY, STATE, ZIP CODE: Jacksonville FL 32225	
ELEPHONE: 904-477-3743	
AX:	
MAIL OF CONTACT: hattenj@att.net	
EBSITE: N/A	

QUOTATION OF RATES

PROPOSER INFORMATION:

Maximum score for criterion is: 60 Points

Proposer shall provide pricing for the Contract by completing the enclosed **Appendix B – Proposal Workbook and Proposal Form**. The rates provided shall be all-inclusive and shall include all profit, taxes, benefits, travel, and all other overhead items.

Please note, the rates or lump sums quoted by Proposer on the Proposal Form must be firm prices, not estimates. ANY MODIFICATIONS, EXCEPTIONS, OR OBJECTIONS CONTAINED WITHIN THE PROPOSAL FORM SHALL SUBJECT THE PROPOSAL TO DISQUALIFICATION.

-	Total One (1) Year Proposal Price
Total One (1) Year Proposal Price – Transfer total from Appendix B – Proposal Workbook	\$ 2,089,977.00

PROFESSIONAL EXPERIENCE, LOCATION, AND AVAILABILITY OF PROPOSER'S STAFF Maximum score for this criterion: 20 Points

Proposer shall provide one (1) resume for the Account Manager available to work on the JEA engagement. At minimum, the resume shall present the employee's name, title, and years of service with the company, applicable professional registrations, education and work experience. The Proposer shall also submit a verifiable local business address for this person, their availability and their expected average response time to JEA.

Maximum points for this criterion: 20 points

Proposer shall submit a written "Quality Plan" addressing, at a minimum, the following elements for JEA, and how it specifically applies to the following needs of JEA:

- 1.) Coverage, Adequacy and Frequency of Inspection
 - 1.1 How will Proposer determine if the specified Service Levels are being met across all sites?
 - 1.2 What will be inspected?
 - 1.3 Who will complete the inspections?
 - 1.4 What will be the frequency of inspections?
 - 1.5 What will be the coverage (Frequency of all sites receiving inspections)?
- 2.) Frequency and Delivery of Metric Reporting
 - 2.1 What Quality Metrics will be tracked?
 - 2.2 How often will reporting be provided to JEA?
 - 2.3 How will the data be made available to JEA?
 - 2.4 How will the reporting be delivered? Electronically or via hard copy?
- 3.) Follow Up Action Plan for Failed Inspections
 - 3.1 Please propose a "Follow Up Action Plan" for any failed inspections.

ADDENDUM 2 - APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE – OPEN MARKET

4.) Chemical Weed Control Services

Please initial below:

4.1 Do you intend to subcontract the Chemical Weed Control Services? If so, describe the experience of the subcontractor you will use and how will you manage their services? If you will not be subcontracting these services, provide details on how you will manage that portion of the contract.

Proposers's Certification

By submitting this Proposal, the Proposer certifies (1) that the Proposer has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, (2) that the person signing below is an authorized representative of the Proposer, and (3) that the Proposer is legally authorized to do business and maintains an active status, in the State of Florida. The Company certifies that its recent, current, and projected workload will not interfere with the Proposer's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Proposer shall immediately notify JEA of status change.

(Initials) I have read and understood the Sunshine Law/Public Records clauses contained within this
solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the publi
"as-is".

We have received addenda1through2	
Jasper Hatten	11-22-2021
Signature of Authorized Officer of Proposer or Agent	Date
Jasper Hatten	904-477-3743
Printed Name & Title	Phone Number

ADDENDUM 2 - APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE - OPEN MARKET

PROP	OSER	INFOR	MATIC	N:

PROPOSER NAM	E: FREEDOM LANDSCAPE & LAWN MAINTENANCE, INC.
BUSINESS ADDR	ESS: 7232 SMYRNA STREET
CITY, STATE, ZII	P CODE JACKSONVILLE, FL 32208
TELEPHONE:(904) 343-9714
FAX: N	I/A
EMAIL OF CONT	ACT: zakee0126@gmail.com
WEBSITE: N	I/A

QUOTATION OF RATES

Maximum score for criterion is: 60 Points

Proposer shall provide pricing for the Contract by completing the enclosed **Appendix B – Proposal Workbook and Proposal Form**. The rates provided shall be all-inclusive and shall include all profit, taxes, benefits, travel, and all other overhead items.

Please note, the rates or lump sums quoted by Proposer on the Proposal Form must be firm prices, not estimates. ANY MODIFICATIONS, EXCEPTIONS, OR OBJECTIONS CONTAINED WITHIN THE PROPOSAL FORM SHALL SUBJECT THE PROPOSAL TO DISQUALIFICATION.

Description of Services – 1410460646 FACILITIES LANDSCAPING	Total One (1) Year			
MAINTENANCE – OPEN MARKET	Proposal Price			
Total One (1) Year Proposal Price – Transfer total from Appendix B – Proposal Workbook	\$ 2,254,743.58 \$2,261,343.58			

PROFESSIONAL EXPERIENCE, LOCATION, AND AVAILABILITY OF PROPOSER'S STAFF Maximum score for this criterion: 20 Points

Proposer shall provide one (1) resume for the Account Manager available to work on the JEA engagement. At minimum, the resume shall present the employee's name, title, and years of service with the company, applicable professional registrations, education and work experience. The Proposer shall also submit a verifiable local business address for this person, their availability and their expected average response time to JEA.

Maximum points for this criterion: 20 points

Proposer shall submit a written "Quality Plan" addressing, at a minimum, the following elements for JEA, and how it specifically applies to the following needs of JEA:

- 1.) Coverage, Adequacy and Frequency of Inspection
 - 1.1 How will Proposer determine if the specified Service Levels are being met across all sites?
 - 1.2 What will be inspected?
 - 1.3 Who will complete the inspections?
 - 1.4 What will be the frequency of inspections?
 - 1.5 What will be the coverage (Frequency of all sites receiving inspections)?
- 2.) Frequency and Delivery of Metric Reporting
 - 2.1 What Quality Metrics will be tracked?
 - 2.2 How often will reporting be provided to JEA?
 - 2.3 How will the data be made available to JEA?
 - 2.4 How will the reporting be delivered? Electronically or via hard copy?
- 3.) Follow Up Action Plan for Failed Inspections
 - 3.1 Please propose a "Follow Up Action Plan" for any failed inspections.

ADDENDUM 2 - APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE – OPEN MARKET

4.) Chemical Weed Control Services

4.1 Do you intend to subcontract the Chemical Weed Control Services? If so, describe the experience of the subcontractor you will use and how will you manage their services? If you will not be subcontracting these services, provide details on how you will manage that portion of the contract.

Proposers's Certification

By submitting this Proposal, the Proposer certifies (1) that the Proposer has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, (2) that the person signing below is an authorized representative of the Proposer, and (3) that the Proposer is legally authorized to do business and maintains an active status, in the State of Florida. The Company certifies that its recent, current, and projected workload will not interfere with the Proposer's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Proposer shall immediately notify JEA of status change.

Please initial below:

We have received addenda 1 through 2	11 22 21	
Signature of Authorized Officer of Proposer or Agent	11-22-21 Date	_
Zakee Furgan, President	(904) 343-9714	
Printed Name & Title	Phone Number	

APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE – OPEN MARKET

PROPOSER INFORMATION:

PROPOSER NAME: J and D Maintenance and Services of North Florida, LLC.					
BUSINESS ADDRESS:	Mailing address: PO Box 37389 Jacksonville, Fl 32236.				
CITY, STATE, ZIP CODE:	Physical address: 4779 Phyllis Street Jacksonville, FL 32254.				
TELEPHONE:	904-384-8411				
FAX:	(904) 387-0851				
EMAIL OF CONTACT:	office@JandDMaintenance.com.				
WEBSITE:	janddmaintenanceandservices.com				

QUOTATION OF RATES

Maximum score for criterion is: 60 Points

Proposer shall provide pricing for the Contract by completing the enclosed **Appendix B – Proposal Workbook and Proposal Form**. The rates provided shall be all-inclusive and shall include all profit, taxes, benefits, travel, and all other overhead items.

Please note, the rates or lump sums quoted by Proposer on the Proposal Form must be firm prices, not estimates. ANY MODIFICATIONS, EXCEPTIONS, OR OBJECTIONS CONTAINED WITHIN THE PROPOSAL FORM SHALL SUBJECT THE PROPOSAL TO DISQUALIFICATION.

Description of Services – 1410460646 FACILITIES LANDSCAPING	Total One (1) Year
MAINTENANCE – OPEN MARKET	Proposal Price
Total One (1) Year Proposal Price – Transfer total from Appendix B – Proposal Workbook	\$ 2,677,579.34 \$2,683,309.34
	

PROFESSIONAL EXPERIENCE, LOCATION, AND AVAILABILITY OF PROPOSER'S STAFF Maximum score for this criterion: 20 Points

Proposer shall provide one (1) resume for the Account Manager available to work on the JEA engagement. At minimum, the resume shall present the employee's name, title, and years of service with the company, applicable professional registrations, education and work experience. The Proposer shall also submit a verifiable local business address for this person, their availability and their expected average response time to JEA.

The Account Manager (AM), Garret Nelson, hereby provides his resume showing over 10 years experience. He will be assigned as the AM for any contracts awarded to J and D Maintenance by JEA. He is available during our working hours, Mon-Fri and in case of emergency, weekends. Response to JEA will be within one hour of a phone call. Rodney Evans is available as a backup emergency number.

APPENDIX B - PROPOSAL FORM 1410460646 FACILITIES LANDSCAPING MAINTENANCE – OPEN MARKET

In addition to the above criteria, J and D Maintenance would like to hightlight TWO items that we addressed in our Quality Assurance Plan that are above the "minimum" requirements cited in the solicitation.

- 1. We have described in detail extra steps taken to keep our employees trained and updated on any change to any requirement that might be made to any site. Our detailed Safety Plan exemplifies the extra care we take to prevent problems and to increase quality of service.
- 2. Our Quality Assurance department inspections are constantly looking for safer, faster, more efficient and better quality services. They use their autonomy within the company to brainstorm new ideas and/or advise the Account Manager of any systemic problems.

Proposers's Certification

By submitting this Proposal, the Proposer certifies (1) that the Proposer has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, (2) that the person signing below is an authorized representative of the Proposer, and (3) that the Proposer is legally authorized to do business and maintains an active status, in the State of Florida. The Company certifies that its recent, current, and projected workload will not interfere with the Proposer's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Proposer shall immediately notify JEA of status change.

Please initial below:

(Initials) I have read and understood the Sunshine Law/Public Records clauses contained within this solicitation. I understand that in the absence of a redacted copy my proposal will be disclosed to the public "as-is".

We have received addenda through

Signature of Authorized Officer of Proposer or Agent

Rodney D. Evans, Owner May & 904-384-84//

Printed Name & Title Phone Number

Appendix B - Proposal Workbook				
1410460646 Facilities Landscaping Maintenance - Open Market				
Company Name: A SANCTUARY HOUSE OF N. FL, I				
Scope of Work: It is the intent of this solicitation to secure economical pricing for basic landscape mainted manner, and the results must be aesthetically pleasing as these facilities represent JEA to the rate-paying p	*			
District 2D Annual Total Proposal Price	\$ 113,448.00			
Districts 3A, 3B and 3C Annual Total Proposal Price	\$ 371,664.00			
District 6ESS, District 7WTR, SJRPP and KGS Annual Total Proposal Price	\$ 1,604,865.00			
TOTAL ANNUAL PROPOSAL PRICE	\$ 2,089,977.00			

Appendix B - Proposal Workbook				
1410460646 Facilities Landscaping Maintenance - Open Market				
Company Name: Freedom Landscape & Lawn Maintenand				
Scope of Work: It is the intent of this solicitation to secure economical pricing for basic landscape mainted manner, and the results must be aesthetically pleasing as these facilities represent JEA to the rate-paying p	*			
District 2D Annual Total Proposal Price	\$ 120,795.00			
Districts 3A, 3B and 3C Annual Total Proposal Price	\$ 442,745.70			
District 6ESS, District 7WTR, SJRPP and KGS Annual Total Proposal Price	\$ <u>1,691,202.88</u>			
	\$1,697,802.88			
TOTAL ANNUAL PROPOSAL PRICE	\$ 2,254,743.58			
	\$2,261,343.58			

Appendix B - Proposal Workbook				
1410460646 Facilities Landscaping Maintenance - Open Market				
Company Name: J and D MAINTENANCE AND SERV				
Scope of Work: It is the intent of this solicitation to secure economical pricing for basic landscape mainted manner, and the results must be aesthetically pleasing as these facilities represent JEA to the rate-paying p	*			
District 2D Annual Total Proposal Price	\$ 234,720.00			
Districts 3A, 3B and 3C Annual Total Proposal Price	\$ 791,670.00			
District 6ESS, District 7WTR, SJRPP and KGS Annual Total Proposal Price	Ψ 1,051,107.5Τ			
	\$1,656,919.34			
TOTAL ANNUAL PROPOSAL PRICE	\$ 2,677,579.34			
	\$2,683,309.34			

1410460646 Facilities Landscaping Maintenance - Open Market - District 2

Vendor Rankings	H. Thurman	S. Dunning	M. Ventura	Σ Rank	Rank	Bid Amount
A Sanctuary House	1	1	2	4	1	\$113,448.00
Eagle Lawn Care	3	3	1	7	2	\$141,741.54
Freedom Landscaping	2	2	3	7	2	\$120,795.00
J&D Maintenance	4	4	4	12	4	\$234,720.00

H. Thurman	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Quality Metrics (20 Points)	Total	Rank
A Sanctuary House	60	20	20	100	1
Eagle Lawn Care	48.02	20	18	86.02	3
Freedom Landscaping	56.35	20	16.6	92.95	2
J&D Maintenance	29	20	20	69	4

S. Dunning	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
A Sanctuary House	60	19	9	88	1
Eagle Lawn Care	48.02	19	13	80.02	3
Freedom Landscaping	56.35	17	11	84.35	2
J&D Maintenance	29	20	20	69	4

M. Ventura	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
A Sanctuary House	60	12	13	85	2
Eagle Lawn Care	48.02	20	19	87.02	1
Freedom Landscaping	56.35	16	6.7	79.05	3
J&D Maintenance	29	20	20	69	4

Overall Averages	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total
A Sanctuary House	60.00	17.00	14.00	91.00
Eagle Lawn Care	48.02	19.67	16.67	84.35
Freedom Landscaping	56.35	17.67	11.43	85.45

1410460646 Facilities Landscaping Maintenance - Open Market - District 3

Vendor Rankings	H. Thurman	S. Dunning	M. Ventura	Σ Rank	Rank	Bid Amount
Eagle Lawn Care	2	2	2	6	2	\$608,953.32
Freedom Landscaping	1	1	1	3	1	\$442,745.70
J&D Maintenance	3	3	3	9	3	\$791,670.00

H. Thurman	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Quality Metrics (20 Points)	Total	Rank
Eagle Lawn Care	43.62	20	18	81.62	2
Freedom Landscaping	60	20	16.6	96.6	1
J&D Maintenance	33.56	20	20	73.56	3

S. Dunning	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
Eagle Lawn Care	43.62	19	13	75.62	2
Freedom Landscaping	60	17	11	88	1
J&D Maintenance	33.56	20	20	73.56	3

M. Ventura	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
Eagle Lawn Care	43.62	20	19	82.62	2
Freedom Landscaping	60	16	6.7	82.7	1
J&D Maintenance	33.56	20	20	73.56	3

Overall Averages	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total
Eagle Lawn Care	43.62	19.67	16.67	79.95
Freedom Landscaping	60.00	17.67	11.43	89.10
J&D Maintenance	33.56	20.00	20.00	73.56

1410460646 Facilities Landscaping Maintenance - Open Market - Districts 6, 7, SJRPP, KGS

Vendor Rankings	H. Thurman	S. Dunning	M. Ventura	Σ Rank	Rank	Bid Amount
Freedom Landscaping	2	2	2	6	2	\$1,697,802.88
J&D Maintenance	1	1	1	3	1	\$1,656,919.34

H. Thurman	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Quality Metrics (20 Points)	Total	Rank
Freedom Landscaping	58.56	20	16.6	95.16	2
J&D Maintenance	60	20	20	100	1

S. Dunning	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
Freedom Landscaping	58.56	17	11	86.56	2
J&D Maintenance	60	20	20	100	1

M. Ventura	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total	Rank
Freedom Landscaping	58.56	16	6.7	81.26	2
J&D Maintenance	60	20	20	100	1

Overall Averages	Quotation of Rates (60 Points)	Experience, Location, and Availability (20 Points)	Company Experience (20 Points)	Total
Freedom Landscaping	58.56	17.67	11.43	87.66
J&D Maintenance	60.00	20.00	20.00	100.00



Formal Bid and Award System

Award #10 March 3, 2022

Type of Award Request: CONTRACT INCREASE

Request #: 6707

Requestor Name: Griffin, Gregg R. **Requestor Phone:** (904) 665-6334

Project Title:

Progressive Design-Build Services for the JEA Utility Training Center Renovation

Project

Project Number: 8005318
Project Location: JEA
Funds: Capital

Budget Estimate: \$6,857,939.00

Scope of Work:

JEA is requesting Responses from qualified Design-Build (DB) firms to provide design and construction services for the renovation of the JEA Utility Training Center (JUTC) facility (the "Work"). The scope of work includes, but is not necessarily limited to, those items listed below which are considered basic to the Solicitation response:

- Complete reformatting and upgrading of all occupied spaces, including offices, classroom, open areas, break room and restrooms; includes finishes, furniture, and fixtures. Restrooms need to be expanded and upgraded to meet current ADA requirements for access.
- Construction of new support and storage spaces, including server room, copy room, and closets/lockable storage.
- Upgrade of all operating systems (HVAC, plumbing, electrical) and related fixtures (toilets, sinks, light fixtures, etc.) HVAC work includes controls; plumbing includes supply and drain/waste/vent lines.
- Upgrade of warehouse doors and storefront systems to Miami-Dade standards.
- Upgrade of locksets, keying systems, and card access to building entrances, exits, and gates.
- Upgrade with new guard shack built to JEA generating station requirements which includes multiple access-controlled gates, gate arms, lanes of entrance and exit, and network fiber optic.

JEA IFB/RFP/State/City/GSA#: 060-21

Purchasing Agent: Selders, Elaine L.

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
AULD & WHITE CONSTRUCTORS LLC	Cindy Reis	creis@auld -white.com	IPVWW Ste 1011	(904) 296- 2555	\$5,290,700.00

Amount of Original Award: \$164,300.00

Date of Original Award: 03/25/2021

Change Order Amount: \$5,290,700.00

New Not-To-Exceed Amount: \$5,455,000.00

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 04/31/2021

End Date (mm/dd/yyyy): Project Completion (Expected: 02/2023)

JSEB Requirement: Five Percent (5%) Evaluation Criteria

Comments on JSEB Requirements:

Original Award

N/A

This Contract Increase

N/A

Background/Recommendations:

Originally approved by the Awards Committee on 03/25/2021 in the amount of \$164,300.00 to Auld & White Constructors, LLC for Phase 1 up to 60% Design. A copy of the original award is attached as backup.

Negotiations with Auld & White Constructors were successfully completed for Phase 2 of this project. The Guaranteed Maximum Price (GMP) in the amount of \$5,290,700.00 has been deemed reasonable based on the scope of work and previous projects. This is a Progressive Design-Build contract which splits the effort into two (2) phases. Phase 1 included engineering design up to sixty percent (60%), support services and pre-construction services. Phase 2 includes the final design, services during construction and construction costs. The Phase 2 Proposal has been attached as backup.

Project Budget and Schedule Details:

• Original Project Budget: \$2,225,060.00 (as of April 2019)

Engineering Cost: \$233,000.00
Construction Cost: \$1,850,000.00
JEA Services Cost: \$142,060.00

• Revised Project Budget (at Phase 2 Award: January 2022): \$6,857,939.00

Engineering Cost: \$234,100.00Phase 1 Cost: \$164,300.00

• Phase 2 Cost: \$69,800.00 (included in GMP)

Construction Cost: \$5,220,900.00
 JEA Services Estimate: \$1,402,939.00

• Original Project Schedule:

Engineering Completion: August 2021Construction Completion: April 2022

• Revised Project Schedule:

Engineering Completion: April 2022Construction Completion: February 2023

Major Changes/Issues

The initial project request was submitted in February of 2018 after the decommissioning of the St. Johns River Power Park and a temporary training center with leased modular units was installed at the Northside Generating Station (NGS). The original budget estimate was lower than the award amount due to scope increases, market escalation for services and materials, the relocation of the guard house, and this not being a typical classroom or office building. This is an industrial training center which includes the renovation of an existing metal warehouse and office building.

The JUTC and Northside Generating Station (NGS) back gate Guard House has progressed to 60% Design stage thru November 2021 with significant stakeholder input and participation on design. The Guard House was originally located closer to JUTC but it was determined that relocation of the Guard House 500 ft to the East was required. The relocation was necessary to accommodate peak operational delivery of tractor trailer traffic concerns at the guard station. This change delayed the 30% to 60% progress milestone. The relocation, including additional W/WW infrastructure extensions to service the

new location have impacted the cost of this project. The infrastructure extension included adding the following to the scope of work: multiple lanes of traffic, automatic gates, fiber, network, electrical service upgrades to industrial voltages and size, potable water supply, and sewer (mini waste water pumping system) as well as road shoulder and additional paving for new back gate. Security also requested that the guard shack meet hardened facility standards, which added to the additional cost.

In November 2021, Facilities received the schedule of values (SOV) proposal at the 60% design milestone which reflected significant scope and cost increases across all trades over our original estimates. The Facilities Capital Group engaged the stakeholders on multiple value add reduction possibilities in every aspect of the 60% design and took action on several items to either eliminate or adopt a different construction option at lower cost for the JUTC project. The scope decreased somewhat to accommodate value add reductions the stakeholders were comfortable with, however the 60% SOV costs reflected significant increases in construction cost projections due to market escalations for services, materials, and labor.

It should be noted that the overall total budget for this project it \$9,947,879.00 and part of that total budget included the purchase of the real estate. The totals above of \$6,857,939.00 include design, construction and JEA internal costs. The parcel of land with adjacent buildings was purchased for this site near NGS in FY20 in the amount of \$3,089,940.00.

Request approval to award Phase 2 Progressive Design Build Services to Auld & White Constructors, LLC for the JEA Utility Training Center (JUTC) Renovation Project in the amount of \$5,290,700.00, for a new not-to-exceed amount of \$5,455,000.00, subject to the availability of lawfully appropriated funds.

Date

Director:	Brunell, Baley L Director, Facilities & Fleet Services				
VP:	McElroy, Alan D VP Supply Chain & Operations Suppor				
APPROVA	LS:				
Chairman,	Awards Committee	Date			

Budget Representative

Manager: Crane, Christopher T. - Manager, Facilities Operations

Date: <u>03/25/2021</u> Item# <u>9</u>



Formal Bid and Award System

Award #9 March 25, 2021

Type of Award Request: PROPOSAL (RFP)

Request #: 6823

Requestor Name: Griffin, Gregg R. **Requestor Phone:** (904) 665-6334

Project Title: Progressive Design-Build Services for the JEA Utility Training Center (JUTC)

Renovation Project

Project Number: 8005318
Project Location: JEA
Funds: Capital

Budget Estimate: \$2,225,060.00

Scope of Work:

JEA is requesting Responses from qualified Design-Build (DB) firms to provide design and construction services for the renovation of the JEA Utility Training Center (JUTC) facility (the "Work"). The scope of work includes, but is not necessarily limited to, those items listed below which are considered basic to the Solicitation response:

- Complete reformatting and upgrading of all occupied spaces, including offices, class room, open areas, break room and restrooms; includes finishes, furniture and fixtures. Restrooms need to be expanded and upgraded to meet current ADA requirements for access.
- Construction of new support and storage spaces, including server room, copy room, and closets/lockable storage.
- Upgrade of all operating systems (HVAC, plumbing, electrical) and related fixtures (toilets, sinks, light fixtures, etc.) HVAC work includes controls; plumbing includes supply and drain/waste/vent lines.
- Upgrade of warehouse doors and storefront systems to Miami-Dade standards.
- Upgrade of locksets, keying systems, and card access to building entrances, exits, and gates.
- Upgrade with new guard shack built to JEA generating station requirements which includes multiple access controlled gates, gate arms, lanes of entrance and exit, and network fiber optic.

JEA IFB/RFP/State/City/GSA#: 060-20

Purchasing Agent: Selders, Elaine L.

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Phone	Amount
AULD & WHITE CONSTRUCTORS, LLC	Cindy Reis	creis@auld -white.com		(904) 296 - 2555	\$164,300.00

Amount for entire term of Contract/PO: \$164,300.00 Award Amount for remainder of this FY: \$164,300.00

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 04/01/2021

End Date (mm/dd/yyyy): Project Completion (Expected: April 2022)

JSEB Requirement:

Five Percent (5%) Evaluation Criteria

Comments on JSEB Requirements:

Durden Surveying and Mapping Inc. – 12.8%

PROPOSERS:

Name	Amount	Rank
AULD & WHITE CONSTRUCTORS, LLC	\$164,300.00	1
CHARLES PERRY PARTNERS, INC.	N/A	2
ABBA CONSTUCTION INC.	N/A	3
ACON CONSTRUCTION CO., INC.	N/A	4

Background/Recommendations:

Advertised on 11/02/2020. Nine (9) prime companies attended the mandatory pre-proposal meeting held on 11/12/2020. At proposal opening on 12/2/2020, JEA received four (4) Proposals. The public evaluation meeting was held on 01/20/2021 and JEA deemed Auld & White Constructors, LLC most qualified to perform the work. A copy of the evaluation matrix and negotiated Phase 1 fees are attached as backup.

Negotiations with Auld & White Constructors, LLC were successfully completed for Phase 1 of this project. This project will be delivered using the progressive design-build method, splitting the effort into two (2) phases. Phase 1 includes engineering design up to sixty percent (60%), support services and pre-construction services, which is approximately 7.9% of the estimated project cost. The Phase 1 negotiated fees proposed were compared with similar facilities design projects and have been deemed reasonable. After Phase 1, a Guaranteed Maximum Price (GMP) will be established, with an option of an "off ramp" if construction pricing is not acceptable. Upon acceptance of the GMP and subsequent approval of the Awards Committee, Phase 2 will commence. Phase 2 will include the final design, services during construction (SDC) and construction costs. The negotiated fees proposed were compared with similar facilities design projects and have been deemed reasonable.

Project Budget and Schedule Details:

- Total Project Budget: \$2,225,060.00
- Design-Build (DB) Estimate (at time of Proposal): \$2,083,000.00
- Phase 1 Fee: \$164,300.00 (7.9% of DB fee estimate)
- DB Firm: Auld & White Constructors, LLC
- Project Completion Key Dates (Estimated):
 - o Phase 1 Start: April 2021
 - Phase 1 Completion: August 2021
 - o Phase 2 Completion: April 2022

060-21 – Request approval to award a contract to Auld & White Constructors, LLC for the Progressive Design-Build Services for the JEA Utility Training Center (JUTC) Renovation Project in the amount of \$164,300.00, subject to the availability of lawfully appropriated funds.

Manager: Crane, Christopher T. - Manager, Facilities Operations
 Director: Brunell, Baley L. - Director, Facilities & Fleet Services
 VP: McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:

9MMM 03/25/2021

Chairman, Awards Committee

Date

Budget Representative

Date



January 19, 2022

Re: JEA Utility Training Center Renovations

Gregg Griffin JEA 10855 New Berlin Road Jacksonville, Florida 32226

Dear Mr. Griffin:

We are pleased to submit our proposal for construction of the JEA Utility Training Center Renovations based on the drawings prepared by Scott A. Brady (see attached Drawing List) dated September 3, 2021 and Proposal Clarifications.

Our Guaranteed Maximum Amount is \$5,290,700.

This Proposal is for acceptance within five (5) days. Due to the current market volatility including impacts from the Coronavirus (COVID-19) on construction materials (i.e. metal, plastics, wood, etc.) and labor availability this proposal is subject to change.

If you wish for us to proceed with this work, please sign in the space below and return to our office. If you have any further questions, please do not hesitate to contact me at (904) 296-2555.

Sincerely, Jared A. Vincent **Director of Estimating** JAV/ck Attachments ACCEPTED: **JEA** BY: DATE:



Formal Bid and Award System

Award #11 March 3, 2022

Type of Award Request: CONTRACT INCREASE (AMENDED)

Requestor Name: Ventura, Mildred - Contract Specialist

Requestor Phone: (904) 665-5201

Project Title: Leased Modular Buildings to House Technical Training at NGS

Project Number: 30801
Project Location: JEA
Funds: O&M
Budget Estimate: \$79,950.00

Scope of Work:

The purpose of this contract increase is to continue to lease the modular buildings currently being used to house JEA's technical training at NGS utilizing the Houston-Galveston Area Council Government Cooperative Agreement (HGAC).

JEA IFB/RFP/State/City/GSA#: HGAC Buy
Purchasing Agent: Selders, Elaine

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Amount
VESTA HOUSING SOLUTIONS LLC DBAVESTA MODULAR	Whatley Law	wlaw@vestahs.com	4446-1A HENDRICKS AVE, STE 116 Jacksonville, FL 32207	\$79,950.00

Amount of Original Award: \$298,420.66

Award Amount for remainder of this FY: \$36,900.00

Date of Original Award: 12/01/2017

Change Order Amount: \$79,950.00

List of Previous Change Order/Amendments:

CPA#	Amount	Date
194290	\$92,250.00	12/03/2020

New Not-To-Exceed Amount: \$470,620.66

Length of Contract/PO Term: Five (5) Years

Begin Date (mm/dd/yyyy): 12/01/2017

End Date (mm/dd/yyyy): 04/30/2023

JSEB Requirement: N/A – No JSEBs available

Background/Recommendations:

In December of 2017, JEA entered into an informal agreement with Vesta Modular to lease Modular Office and Storage units. JEA's technical training team had originally been located at St. Johns River Power Park (SJRPP) but had to be relocated when the generating station was decommissioned. In an expedited effort to find a temporary home for the training team, the decision was made to piggy-back off of the Houston-Galveston Area Council Government Cooperative Agreement where these units had been competitively bid.

JEA originally anticipated needing these units for approximately thirty six (36) months at \$3,640.00 per month, and intended to purchase a site and build a permanent JEA Utility Training Center (JUTC) within that time period. After the original contract was signed it was discovered the team would also need two storage containers and ramps for the buildings which increased the monthly amount to \$6,150.00. Due to the construction of JUTC not being complete, a contract extension was awarded on 12/03/2020 in the amount of \$92,250.00 to cover the needs through completion. The JUTC construction project was delayed due to various design plan changes and discussions about value add alternatives, which is now at 60% design. JEA is requesting to extend this contract with Vesta Modular for an additional thirteen (13) months at the same rate of \$6,150.00 per month in the amount of \$79,950.00 to get us through completion of the project and allow for a transition period for move-in. The previous award and agreement are attached as backup.

It should be noted that this is an amended award that was originally brought before the committee on 01/13/2022 for approval. The amended award provides additional details regarding the JUTC project and the award amount was increased for an additional month. The contract amendment to the JUTC project is also on the agenda and pending approval for Phase 2. The current timeline at 60% design supports the completion of the project in February 2023, barring no major supply chain disruptions. JEA will be working with the vendor to see if material orders need to be place prior to construction to avoid further delays.

Leased Units	Number to be Awarded	Unit Price	Monthly Pricing
Modular Classroom 36X40	3	\$910.00	\$2,730.00
Modular Office 36X40	1	\$910.00	\$910.00
Storage Containers 8X40	2	\$125.00	\$250.00
Ramps, Steps & Decks	1	\$2,260.00	\$2,260.00
Totals	7		\$6,150.00

Request approval to award an amended contract increase to Vesta modular for Leased Modular Buildings for Technical Training at NGS in the amount of \$79,950.00, for a new not-to-exceed amount of \$470,620.66, subject to the availability of lawfully appropriated funds.

Manager:	Newton-Green, Melanie - Mgr Business Operations
Director:	Brunell, Baley L Dir Facilities & Fleet Services
VD.	McElroy Alan D. VD Supply Chain & Operations

VP: McElroy, Alan D. - VP Supply Chain & Operations Support

APPROVALS:	
Chairman, Awards Committee	 Date
Budget Representative	 Date



Formal Bid and Award System

Award #8 December 3, 2020

Type of Award Request: CONTRACT EXTENSION

Requestor Name: Ventura, Mildred - Contract Specialist

Requestor Phone: (904) 665-5201

Project Title: Leased Modular Buildings to House Technical Training at NGS

Project Number: 30801
Project Location: JEA
Funds: O&M

Budget Estimate: \$92,250.00

Scope of Work:

The purpose of this contract extension is to continue to lease the modular buildings currently being used to house JEA's technical training at NGS utilizing the Houston-Galveston Area Council Government Cooperative Agreement (HGAC).

JEA IFB/RFP/State/City/GSA#: HGAC Buy
Purchasing Agent: Selders, Elaine

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Amount
VESTA HOUSING SOLUTIONS LLC DBAVESTA MODULAR	Whatley Law	wlaw@vestahs.com	4446-1A HENDRICKS AVE, STE 116 Jacksonville, Duval, FL 32207	\$92,250.00

Amount of Original Award: \$298,420.66

Award Amount for remainder of this FY: \$67,650.00

Date of Original Award: 12/01/2017

Change Order Amount: \$92,250.00

Amount for entire term of Contract/PO: \$390,670.66

Length of Contract/PO Term: Three (3) Years

Begin Date (mm/dd/yyyy): 12/01/2017

End Date (mm/dd/yyyy): 01/31/2022 (estimated completion of JUTC)

JSEB Requirement: N/A – No JSEBs available

Background/Recommendations:

In December of 2017, JEA entered into an informal agreement with Vesta Modular to lease Modular Office and Storage units. JEA's technical training team had originally been located at St. Johns River Power Park (SJRPP) but had to be relocated when the generating station was decommissioned. In an expedited effort to

find a temporary home for the training team, the decision was made to piggy-back off of the Houston-Galveston Area Council Government Cooperative Agreement where these units had been competitively bid.

JEA originally anticipated needing these units for approximately 36 months at \$3,640.00 per month, and intended to purchase a site and build a permanent JEA Utility Training Center (JUTC) within that time period. After the original contract was signed it was discovered the team would also need two storage containers and ramps for the buildings which increased the monthly amount to \$6,150.00. Due to several delays the JUTC Design Build RFP is just now on the street and these modular units are still needed until JUTC is completed. A current quote and agreement for the leased units are attached as backup.

Leased Units	Number to be Awarded	Unit Price	Monthly Pricing
Modular Classroom 36X40	3	\$910.00	\$2,730.00
Modular Office 36X40	1	\$910.00	\$910.00
Storage Containers 8X40	2	\$125.00	\$250.00
Ramps, Steps & Decks	1	\$2,260.00	\$2,260.00
Totals	7		\$6,150.00

^{*} JEA has no previous price information available for these leased items.

Request approval to award a contract extension to Vesta modular for Leased Modular Buildings to House Technical Training at NGS in the amount of \$92,250.00, for a new not-to-exceed amount of \$390,670.66, subject to the availability of lawfully appropriated funds.

Director: Crane, Christopher T. - Manager, Facilities OperationsChief: McElroy, Alan D. - Interim Chief Supply Chain Officer

APPROVALS:

JMWM 12/04/2020

Chairman, Awards Committee Date

Juny H Vistore 12/4/2020

Budget Representative Date



The provisions of this Schedule dated February 1, 2021 are subject to the terms and conditions of the Master Lease Agreement # WL1117JEA dated November 15, 2017 by and between Vesta Housing Solutions, LLC, 1000 Town Center, Suite 975, Southfield, MI 48075 ("Lessor"), and JEA ("Lessee"), located at 21 West Church St., Jacksonville, FL 32202 collectively referred to as the "parties" in the Master Lease Agreement and/or Schedule(s). Pursuant to terms of and in accordance with the Master Lease Agreement, Lessor agrees to lease to Lessee and Lessee agrees to lease from Lessor the equipment described more particularly below for the consideration set forth below:

MODULAR BUILDING DETAILS:

Quantity Four (4)

Type One (1) Modular Office Building, Three (3) Modular Classroom Buildings, Two (2) Storage Containers,

& Raised deck platform/ramp/steps

Size One (1) Office 36' x 60'; Three (3) Classrooms 36' x 40', Two (2) 8' x 40', Platform per proposal

Serial Numbers DSI 15137 A-C (CR67); DSI 15138 A-C (CR68); DSI 15139 A-C (CR70); 0433232 A-C (MO17);

941367-9 (ST112); 635601-5(ST136)

DESCRIPTION / LOCATION:

Name NGS (Northside Generation Station)

Full Address 4377 Heckscher Drive

Jacksonville, FL 32226

LEASE DETAILS:

Commencement Date February 1, 2021
Term (consecutive months from commencement date) 15 Months
Monthly Lease Payment* \$6,150
Number of Payments Per Year 12
Total Lease Payments (for entire term) \$92,250

Date of First Payment Upon Acceptance

OTHER DETAILS:

Dismantle & Return Costs

To be determined at the time of termination of the lease

Dismantle & Return Payment Details Lessee responsible for teardown and return costs in accordance with MLA provisions

IN WITNESS WHEREOF, the parties hereto have caused this Schedule to be duly executed on the date set forth below by their authorized representatives. Upon execution, this Schedule becomes incorporated by reference to the Master Lease Agreement and is subject to all of the terms, conditions, and/or provisions set forth therein

 \square (Check if applicable)

Further, Lessee acknowledges the Proposal attached to this Schedule and initialed by Lessee applies to this individual Schedule only. These documents do not apply to any other existing or future Schedules.

Lessor: Vesta Housing Solutions, LLC

Signatura & all the

Name (Printed): Daniel McMurtrie

Title: Chief Executive Officer

Date: 03/05/2021

Lessee: JEA

Signature:

Name (Printed): Jenny McCollum

itle: Director of Procurement & Chief Procurement Officer

O3/03/2021

MLA#WL117JEA Schedule 07 Page 1 of 1

^{*} Does not include state, local or other tax, licensing, maintenance or other applicable charges. If applicable, such charges are Lessee's responsibility



Formal Bid and Award System

Award #12 March 3, 2022

Type of Award Request: INVITATION FOR BID (IFB)

Requestor Name: Jessica Keeler **Requestor Phone:** (904)665-6403 **Project Title:** ITEM CAIRH012

Project Number: Various **Project Location:** JEA

Funds: Inventory Blanket Account

Budget Estimate: \$383,000.00

Scope of Work:

The purpose of this Invitation for Bid (IFB) is to solicit pricing for Item CAIRH012 (CABLE, 500KCM, 37 STRAND, 3-1/C PARALLELED). During the last 12 months, the commodity spend for this item was \$164,529.60. At the time of the bid release, the inventory balance for the item found in this solicitation was \$2,989.80 with the average current lead time of 56 days.

JEA IFB/RFP/State/City/GSA#: 1410562246-22 Purchasing Agent: Eddie Bayouth

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Vendor Contact	Email	Address	Phone	Amount
GRESCO SUPPLY INC.	Carrie Campbell	Carrie.campbe ll@gresco.co m	6421 CR 219 Wildwood, FL 34785	352-748-9550	\$454,500.00

Amount for entire term of Contract/PO: \$454,500.00 **Award Amount for remainder of this FY:** \$454,500.00

Length of Contract/PO Term: One-time purchase

Begin Date (mm/dd/yyyy): 03/01/2022

End Date (mm/dd/yyyy): One-time purchase

Renewal Options: N/A

JSEB Requirement: N/A – Optional

BIDDERS

Name	Number of Items Bid	Bid Value
GRESCO SUPPLY INC.	1	\$454,500.00
ANIXTER INC.	1	\$512,300.00

Background/Recommendations:

It was advertised on 01/21/2022 as a formal solicitation. There was no pre-response meeting for this solicitation. At Response opening on 02/15/2022, JEA received two (2) Responses.

It should be noted that this solicitation was initially done in December as an informal solicitation. Due to supplier Minimum Order Quantity requirements along with newly emergent JEA capital project requirements the award would have been above the \$300,000.00 threshold. JEA determined this solicitation should be rescinded and reissued as a formal solicitation.

CAIRH012 is a product consisting of three separate cables ran together for three (3) phase applications primarily in downtown Jacksonville underground. CAIRH012 was developed and approved by JEA Standards in early 2020 as alternative and eventual replacement to the CAIRH008; the newly created CAIRH012 incorporates different colored jackets per phase (black, red and blue) as opposed to the all-black jackets in CAIRH008. The color-coded jackets offer a primary advantage to the all-black jackets of CAIRH008 in its ability to quickly identify the phases which has caused issues in the past for JEA. One instance of when this is particularly useful in situations where there is not enough visible cable to see the printed phasing; when utilizing the CAIRH008 it was required to identify the proper phasing via the printing on the jacket which is increasingly difficult with limited amounts of cable, this is eliminated when only needing to identify the color for proper phase identification. Secondly, the colored jackets help in general installations and maintenance as one can easily identify the phases via color to provide a quick way to check the safety of the connection by phase. This item only prior purchase was in June of 2020 as a spot buy and it, along with CAIRH012, have been relatively slowmoving items.

The past usage was largely based on repairs and maintenance of those cables as needed, because service growth in the network has been largely stagnant for some time. These days, with development and expansion on the rise downtown, JEA is seeing an increase in demand for these applications (CAIRH008 & CAIRH012 collectively) as we are doing more in the way of much needed upgrades/replacements to strengthen the network in preparation for some of that. JEA will continue to see decreasing usage of the CAIRH008 as they switch to the CAIRH012 multi-colored product. Lastly regarding consumption, at the request of the business, and after validation from last storm, both CAIRH008 and CAIRH012 are identified as items to have additional inventory as part of the underground cable storm stock item requirements in 2022.

The evaluation criteria for this bid was that the total lowest cost provider for the item would win, as long as the minimum qualifications were met, and they quoted the correct JEA approved manufacturer and manufacturer part number. Gresco Supply Inc. has been deemed the most responsive and responsible bidder based on their prices for this item. A copy of the Bid Analysis Workbook is attached as backup.

JEA will realize an estimated cost increase via unit price increase totaling \$228,000.00 for this contract, or 101% from las time item was bought in 2020. This increase in cost is primarily attributed to the cost increases of copper, labor, and transportation that have impacted all wire and cable over this time.

1410510446-21—Request approval to award contracts to Gresco Supply Inc. for Item CAIRH012 carried in JEA's inventory stock for a total amount of \$454,500.00 subject to the availability of lawfully appropriated funds.

Manager: Kenny Pearson – Procurement Category Manager

Director: Jenny McCollum – Director, Procurement Services

VP: Alan McElroy – VP Supply Chain & Operations Support

APPROVALS:	
Chairman, Awards Committee	Date
Budget Representative	Date

	1410562246-22 Item CAIRH012 Bid Analysis						Anixter Inc. Bid		
	Item Description	Mfg. Name & Mfg. Part Number	Quoted Mfg. & Part Number	иом	Usage	Quoted Unit Price	Total Price	Lead Time: In Calendar Days After Receipt of Order	Contractual Minimum Order Quantities
CAIRH012	CABLE, 500KCM, 37 STRAND, 3-1/C PARALLELED, COPPER, COLORED JACKET PER PHASE (BLACK, RED, BLUE), NO PULLING EYES, NON-RET WOODEN REELS,1000' REEL LENGTH MARKED W/FOOTAGE MARKINGS, REEL TYPE NR80.60 = 80" FLANGE DIA, 60" TRAVERSE (SPEC REQD)	CME Wire and Cable Inc. Prysimian Cable and Systems Southwire Co.	PRYSMIAN CABLE & SYSTEMS	Foot	10000	\$ 51.23	\$512,300.00	98	10,000
							Supply Inc.		
JEA Item ID	Item Description	Mfg. Name & Mfg. Part Number	Quoted Mfg. & Part Number	UOM	Usage	Quoted Unit Price	Total Price	Lead Time: In Calendar Days After Receipt of Order	Contractual Minimum Order Quantities
CAIRH012	CABLE, 500KCM, 37 STRAND, 3-1/C PARALLELED, COPPER, COLORED JACKET PER PHASE (BLACK, RED, BLUE), NO PULLING EYES, NON-RET WOODEN REELS,1000' REEL LENGTH MARKED W/FOOTAGE MARKINGS, REEL TYPE NR80.60 = 80" FLANGE DIA, 60" TRAVERSE (SPEC REQD)	CME Wire and Cable Inc. Prysimian Cable and Systems Southwire Co.	PRYSMIAN CABLE & SYSTEMS	Foot	10000	\$ 45.45	\$454,500.00	56	10,000



Formal Bid and Award System

Award #13 March 3, 2022

Type of Award Request: REQUEST FOR PROPOSAL (RFP)

Requestor Name: Smith, Brandy **Requestor Phone:** (904) 665-7987

Project Title: 300 MVA 230 kV to 69 kV Transformer for West Jax Substation T1

Project Location: JEA
Project Number: 8007279
Funds: Capital

Award Estimate: \$3,000,000.00

Scope of Work:

JEA is soliciting Bids for the equipment design, fabrication, and delivery of one (1) one 230kV to 69 kV transformer for the West Jax Substation (the "Work" or "Services").

Basic Transformer Specifications:

180/240/300 MVA, ONAN/ONAF/ONAF @ 65°C Rise. The autotransformer shall be capable of transforming the minimum MVA rating continuously, self-cooled at rated voltage and frequency without exceeding an average winding temperature rise of 65 degrees C.

Voltage: 230kV GRDY / 69kV GRDY, 13.8 KV Tertiary Buried Delta

The transformer description is oil immersed, three phase, outdoor type, step-down autotransformer with self-contained voltage regulating equipment on the low voltage side, automatic thermostatically controlled forced-air cooling equipment and other accessories, spare parts and appurtenances hereinafter specified. Delivery shall be F.O.B autotransformer pad. Manufacturer is responsible for offloading.

The scope of services the company will provide includes, however, is not limited to:

- Equipment Design
- Equipment Engineering
- Materials procurement
- Fabrication
- Drawings
- Delivery Offload & Set on the pad.

JEA is requesting pricing for the Unit Price and Unit Price with load losses, the evaluated unit price, listed in the Bid Workbook.

JEA IFB/RFP/State/City/GSA#: 1410526846

Purchasing Agent: Lovgren, Rodney D.

Is this a Ratification?: NO

RECOMMENDED AWARDEE(S):

Name	Contact Name	Address	Phone	Amount
PTI TRANSFORMERS LP	Mick Cleveland	101 Rockman Street, Winnipeg, Manitoba, CA R3T OL7	204-452-7446	\$3,310,828.00

Amount for entire term of Contract/PO: \$3,310,828.00 **Award Amount for remainder of this FY:** \$500,000.00

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 03/01/2022

End Date (mm/dd/yyyy): Project Completion (Estimate 04/28/2024)

JSEB Requirement: N/A - Specialty Services

BIDDER:

Name	Unit Price	Evaluated Price	Comments
SPX TRANSFORMER SOLUTIONS INC.	\$3,203,501.00	\$3,805,101.00	Proposal Withdrawn
PTI TRANSFORMERS LP	\$3,310,828.00	\$4,477,828.00	
HYUNDIA ELECTRIC AMERICA CORPORATION	\$3,605,599.00	\$4,616,599.00	

Background/Recommendations:

Advertised on 12/28/2021. Three (3) companies attended the optional pre-response meeting on 01/06/2022. At response opening on 02/01/2022, JEA received three (3) Proposals. The evaluation is 100% price and PTI Transformers LP was deemed the lowest priced responsible and responsive Proposer. A copy of the Bid Form and Bid Workbook is attached as backup.

It should be noted that SPX discovered a price error in their proposal post opening and JEA was not willing to accept an updated bid amount since the pricing was released to all Bidders through an intent to award. JEA believed this would create an unfair advantage, so we allowed SPX to withdrawal their proposal per the terms in the solicitation. Additionally, SPX's proposal had price adjustment through delivery as a base negotiation position, which JEA found less responsive. PTI has agreed to a fixed price through delivery which has a 60 week lead time vs. SPX's 104 week lead time.

The Bidders submit their unit price (actual equipment price) and are evaluated on an evaluated price, which takes into account load losses to determine the Awardee. The load losses are calculated by the equipment designer and input into a cost of ownership calculation to arrive at the evaluated price.

The award amount is 9.3% more than the budget estimate, which is deemed reasonable given the current market conditions. For reference, the 2021 PPI for Large Specialty transformers was up approximately 30% in 2021.

1410526846 - Request approval to award a contract to PTI Transformers LP for the supply of the West Jax. T-1 transformer in the amount of \$3,310,828.00, subject to the availability of lawfully approved funds.

Manager: Hamilton, Darrell D. - Mgr Transmission and Substation Projects

Director: Acs, Gabor – Sr. Dir. Engineering & Projects **VP:** Erixton, Ricky D. - VP Electric Systems

APPROVALS:

Chairman, Awards Committee	Date
Budget Representative	Date

APPENDIX B PROPOSAL FORM

1410528846 - 300 MVA - 230KV to 69 KV Transformer for West Jax Substation T1

COMPANY INFORMATION:

COMPANY NAME: PTI Transformers LP

BUSINESS ADDRESS: 101 Rockman Street

CITY, STATE, ZIP CODE: Winnipeg, Manitoba, Canada R3T 0L7

TELEPHONE: (204) 452-7446

FAX: (204) 453-8644

EMAIL OF CONTACT: dboyd@ptitransformers.com

Quoted price in USD Funds

Unit Price per Option.

Description	Unit Price		
Option 1 – Evaluated Unit Price from the Bid Workbook	\$ 4,477,828.00 Evaluated Unit Price		

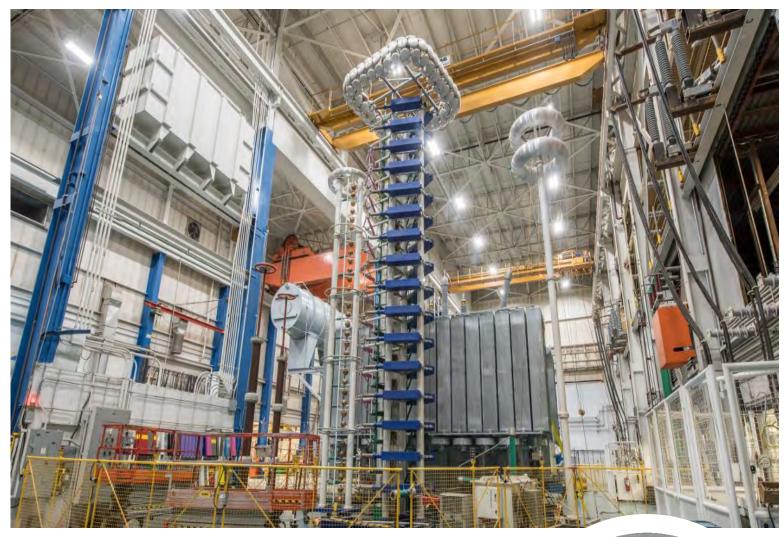
Upload 1 electronic signed copy of this Proposal your Proposal Submission

Company's Certification

By submitting this Proposal, the Proposer certifies that it has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, that the person signing below is an authorized representative of the company, that the company is legally authorized to do business in the State of Florida, and that the company maintains in active status an appropriate license for the work. The company certifies that its recent, current, and projected workload will not interfere with the company's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Company shall immediately notify JEA of status change.

	We have received addenda 1 through 3 4	February 1, 2022	
	Signature of Authorize Officer of Company or Agent	Date	
GOY	Dan Boyd, Product Sales Manager	(204) 474-5704	
1-	Printed Name & Title	Phone Number	



JEA

RFP: 1410526846 - RFP 300 MVA West Jax T1 Transformer

Our Ref: Q100513

Submitted: February 1, 2022









To: JEA

Subject: RFP: 1410526846 – RFP 300 MVA West Jax T1 Transformer

With reference to the aforementioned inquiry, PTI Transformers is pleased to present our detailed commercial and technical offering for the below equipment:

PTI Ref	Qty	Description
Q100513	1	3 Ph, 180/240/300 MVA, Autotransformer 230/69/13.8 kV c/w LV OLTC

This proposal is based upon the requirements outlined as per the supplied RFQ documents.

We trust you find our offering in line with your requirements, but should you have any questions please do not hesitate to contact your local PTI Transformer representative (details below).

Mick Cleveland Engineer Power Solution LLC 336-337-3900

engpwrsol@msn.com

Thank you for considering PTI Transformers, and we look forward to supply the above equipment.

Yours truly,

Shah Mohamed-Ali Quotation Specialist

PTI Transformers

This document contains privileged and confidential information belonging to the Sender. This information is intended solely for the use of the individual or entity addressed above. If you have received this information in error, please immediately notify the Sender.



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SECTION 1: PRICING & BID INFORMATION

1.1. JEA Appendix B – Proposal Form & Bid Workbook

APPENDIX B PROPOSAL FORM

1410528846 - 300 MVA - 230KV to 69 KV Transformer for West Jax Substation T1

COMPANY INFORMATION:

COMPANY NAME: PTI Transformers LP

BUSINESS ADDRESS: 101 Rockman Street

CITY, STATE, ZIP CODE: Winnipeg, Manitoba, Canada R3T 0L7

TELEPHONE: (204) 452-7446

FAX:___(204) 453-8644

EMAIL OF CONTACT: dboyd@ptitransformers.com

Quoted price in USD Funds

Unit Price per Option.

Description	Unit Price		
Option 1 – Evaluated Unit Price from the Bid Workbook	\$ 4,477,828.00 Evaluated Unit Price		

Upload 1 electronic signed copy of this Proposal your Proposal Submission

Company's Certification

By submitting this Proposal, the Proposer certifies that it has read and reviewed all of the documents pertaining to this RFP and agrees to abide by the terms and conditions set forth therein, that the person signing below is an authorized representative of the company, that the company is legally authorized to do business in the State of Florida, and that the company maintains in active status an appropriate license for the work. The company certifies that its recent, current, and projected workload will not interfere with the company's ability to Work in a professional, diligent and timely manner.

The Proposer certifies, under penalty of perjury, that it holds all licenses, permits, certifications, insurances, bonds, and other credentials required by law, contract or practice to perform the Work. The Proposer also certifies that, upon the prospect of any change in the status of applicable licenses, permits, certifications, insurances, bonds or other credentials, the Company shall immediately notify JEA of status change.

	We have received addendathroughthrough		
	Signature of Authorize Officer of Company or Agent	February 1, 2022 Date	
For	Dan Boyd, Product Sales Manager	(204) 474-5704	
	Printed Name & Title	Phone Number	

	1410528846 Bid Workbook - West Jax Substation T1 Transformer (BIDDER SHALL FILL IN YELLOW CELLS)											
Only 1 Option	Guaranteed No-Load				Guaranteed Auxiliary							
may be selected	Transformer	Transformer Description	Unit Price (Base Price)	Losses		.e (Base Price) Loss		Guarantee	d Load Losses	Lo	sses	Evaluated Unit Price
may be selected				kW	Amount	kW	Amount	kW	Amount			
Option 1	West Jax T1 300 MVA Transformer	230 KV Delta (Δ) to 69 KV Grounded Wye (Y), Three-Phase Note 1	\$ 3,310,828.00 58 \$5,000		872	\$1,000	10	\$500	\$4,477,828			
	MAT	ERIALS AND SERVICE OPTIONS PRICING (BIDI	DER SHALL FILL IN Y	ELLOW (CELLS)							
#	Material / Service Option	Description of Work	Unit Price	C	Qty							
1	Field Serivce Technician	3 days of service during time period Monday - Friday, including travel and per diem.	Note 2	1	1 Lot							
2	Additional Optional Training	5 days of training, including travel, per diem	\$ 17,000.00	1	1 Lot							
3	In and Out Costs	Move in and out of Storage	Note 3	1	Lot	1						
4	Storage Costs	If Delivery delayed > 30 days from Ready to Ship. Delivery delays < 30 days shall be absorbed by the Company	Note 3	Per N	Month							
5	Critical Spare Parts	HV Bushing	\$ 11,500.00	11,500.00 1								
6	Critical Spare Parts	LV Bushing	\$ 4,700.00		1							
7	Critical Spare Parts	Neutral Bushing	\$ 2,800.00		1							
8	Critical Spare Parts	Gaskets	\$ 12,000.00		1							

Note 1: Assembly, Vacuum Oil Fill, Testing & Commissioning of Transformer at site is not inluded in the price and shall be extra if required.

Note 2: Please refer to the Field Service rates as shown in Section 1.4 of the Bid Proposal.

Note 3: Please refer to Storage and associated costs as shown in Section 1.5 of the Bid Proposal.

MATERIAL	CODE	PERCENTAGE	NOTES / RATIONALE
Electrical Steel		Note 2	There is no US BLS Index for electrical grade steel. JEA may accept the supplier documentation on steel purchase prices, or use an altnernate index such as transformer specialty manufacturer's index.
Carbon Steel	WPU101703	Note 2	This commodity category PPI Commodity data for Metals and metal products-Hot rolled steel sheet and strip, including tin mill products, not seasonally adjusted
Copper	Comex	Note 2	The quarterly price adjustment for Copper shall be in accordance with PLATTS Metals Daily PDF weekly average for "COMEX HG 1st Position". The weekly average figures that will be used will be the last full week prior to the respective "Drawing Approval Date", as reported by PLATTS.
Oil	DCOILWTICO	Note 2	The quarterly price adjustment for Oil shall be in accordance with the U.S. Energy Information Administration: Crude Oil Prices: West Texas Intermediate (WTI) - Cushing, Oklahoma (DCOILWTICO). The U.S. Energy Information Administration publishes this value daily. The pricing for the Oil will be determined by using the last daily reported figure that is the published and available on the Anniversary Date. This reported figure will then be compared to the initial Oil Base to measure the applicable percentage change.
All Other	N/A	Note 2	Fixed Cost

Note 2: We have offered fixed price for the unit.



1.2. Bid Summary

Bid Validity : 60 days from date of original submittal excluding pricing

: 30 days from date of original submittal for pricing.

Currency : USD Funds

Taxes : Not included and shall be extra if required.

Delivery : 60 to 64 weeks after receipt of order and is subject to plant loading and confirmation at time of order.

INCO Terms : DDP Site (offload to Pad).

Warranty : 60/66 months, with in/out coverage for the 1st year and in-out charges capped at 25% of the unit

price.

Shipping Conditions:

• Shipping <u>under dry air</u> by rail to nearest rail siding

- Getting rail clearance on regular train only.
- Having clear access to the substation with road trailer used to move from nearest rail siding to site.
- Getting road trailer within 30 feet from the pad for offloading;
- Not transloading the transformer to a shorter trailer due to lack of access to or within the substation and to the pad.
- Having clear access to the pad for offloading, not jacking up the transformer more than 2 feet to skid it off the trailer to the pad.
- Not rotating the transformer on site or pad.
- Having good ground conditions within the substation to withstand the trailer with transformer and skidding system.
- <u>Does not include</u> route survey, route engineering study, repair of roads, and utilities and police escorts. This, if required, are at costs plus 15% Adm fee.
- <u>Does not included</u> engineering stamped offloading drawings/lift plan. These, if required, will be at costs plus 15%.

PTI confirm that the Autotransformer and all loose items are to be shipped FOB Destination.



1.3. Recommended Spare Parts

Item	Make	Qty	Price USD Funds
Winding Temperature Indicator	Messko	1	\$4,200.00
Oil Temperature Indicator	Messko	1	\$3,400.00
Sudden Pressure Relay 900 series	Qualitrol	1	\$2,400.00
Pressure Relief Device	Messko	1	\$5,100.00
Oil level Gauge	Messko	1	\$3,000.00
LTC Vacuum Interrupter and bypass kit.	MR Reinhausen	1	\$18,900.00
LTC Selector assembly set.	MR Reinhausen	1 set	\$9,100.00
	TOTAL		\$46,100.00



1.4. Standard Field Service Rates

The following rates are applicable for personnel working within North America. Prices are subject to change.

Per Diem: \$2,050.00 per workday. This rate includes all time worked or traveled during a normal eight (8)

hour work day or fraction thereof. A work day is considered any consecutive eight-hour period Monday to Friday (holidays excluded) with an allowance for lunch. Per Diem rate includes local traveling and living expenses only. It does not include the cost of airfare or transportation to/from the job site and personnel headquarters. All hours worked or traveled in excess of eight hours per weekday and all hours on Saturdays, Sundays, and holidays will be billed at

the applicable hourly/overtime rates.

Hourly: \$190.00 per hour or any fraction thereof. The hourly rate is applicable to all regular workday

time, including travel time 00 and time at the job site whether worked or not. A weekday is considered any consecutive eight-hour period Monday to Friday (holidays excluded) with an

allowance for lunch.

Overtime: \$285. per hour or any part thereof. This rate is applicable to all hours worked in excess of eight

(8) hours on weekdays (holidays excluded), and all time worked or traveled on Saturdays.

Sunday & Holiday: \$385.00 per hour or any part thereof. This rate is applicable to all hours worked or traveled on

Sundays or holidays.

Standby: When personnel are prevented or unable to perform the services requested on the jobsite

because of circumstances beyond their control, the purchaser will be billed at the applicable

rate.

Time Off: The minimum time off for personnel during one 24-hour period shall be eight (8) hours.

Travel: Traveling time and expenses for each service person includes leaving and returning to

headquarters. The maximum billing for traveling time at the applicable rate shall be eight (8)

hours per individual for any one calendar day.

TRAVEL & LIVING EXPENSES

Hourly rates do not include any travel or living expenses.

Transportation costs to/from the jobsite and personnel headquarters shall be billed at cost.

Auto travel to/from the jobsite and headquarters, will be billed at a rate of \$0.75 per kilometer.

Copies of invoices shall be supplied.



1.5. PTI Storage Requirements and Costs

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PTI Transformers LP

Registered Office & Plant: 101 Rockman Street, Winnipeg, Manitoba R3T 0L7, Canada T: +1 204 452 7446 F: +1 204 453 8644 W: www.partnertechnologies.net



STORAGE REQUIREMENTS AND COST

- I. Storage Requirement
- a. Supplier to provide storage requirements associated with short-term and long-term storage plans. This should include any special inspections or maintenance requirements to be performed by Owner or Supplier.
- b. 100% of the total unit ex-works price to be paid within 30 days of placement into storage. Remainder of contract price to be invoiced as services are rendered.
- II. Storage Costs at Production Facility

Supplier to define the costs associated with potential storage at Suppliers production facility, at the port or other interim storage facility, and at the Project site.

	Storage Cost	Insurance Cost	Maintenance Cost	Total
Storage at Production Facility	\$500.00 / Mo	\$250.00 / Mo	\$1,000.00/Mo	\$1,750.00/Mo

III. Offsite Storage

Supplier shall receive written consent from Purchaser prior to any offsite Storage

IV. Storage Costs at Onsite/Offsite Storage Facility (Beyond 3 months)

Purchaser is responsible for actual invoiced costs, plus 10% administrative fee. The costs include charges associated with storage, insurance, maintenance, loading, unloading, transport of unit (from factory to storage location) while being stored at an onsite/offsite storage facility, plus 10% administrative fee.

V. Additional Costs Associated with Long-Term Onsite/Offsite Storage (Beyond 6 Months)

If the unit needs to be stored longer than 6 months, then it needs to be filled with oil, which required assembly, oil processing, and filling at the long-term storage facility. Before the unit can be transported to the site, the oil needs to be drained and the unit needs to be disassembled for the transport. Purchaser is responsible for actual invoiced costs, plus 10% administrative fee, for long-term storage and transport preparations. They are in addition to the onsite/offsite storage costs described above.



SECTION 2: COMMERCIAL COMMENTS AND EXCEPTIONS

JEA Contract Terms and Conditions

Article 2.3.1: Payment Method - Task Authorization

We would like to offer milestone payment terms as shown below:

10% net 30 days after Design approval.

20% net 30 days at time of Manufacturing release.

40% net 30 days at time of successful completion of testing at our works.

20% net 30 days upon delivery to site.

Balance 10% payment after the final acceptance, but not to exceed 30 days after delivery.

Article 2.3.6: Taxes

Supplier is not registered to collect taxes within the USA, and Purchaser will need to self asses. Prices quoted do not include federal, state and local taxes.

Article 2.5.5: Limitation of Liability

The Purchaser agrees that the Seller not be liable for loss of expectation of profit, or any indirect special or consequential damages as a result of any failure to execute any of its obligations relating to the sale of the Equipment. The Seller's liability, on any other claim for loss arising out of the sale or repair of the Equipment or any failure of the Equipment or any element thereof shall not exceed the net unit price, exclusive of any taxes, duties or transportation cost of the Equipment or that part of the Equipment involved in such claim for loss, whichever is the lesser.

Article 2.4.1: Warranty

The Warranty Period for the Original Purchaser shall be sixty-six (66) months after the date of Delivery to its original destination or sixty (60) months from the date of the first use of Equipment by the Original Purchaser or End User, whichever is shorter. The Seller warrants that during the Warranty Period, the Equipment shall be free from defects in material and workmanship and shall reasonably meet the specifications of the Purchaser. If, within the Warranty Period, the Equipment does not meet the warranty specified above, and provided that the Purchaser promptly notifies the Seller of any such defects in writing, the Seller agrees to correct any defect, at its option, either by repairing or replacing any defective parts, or by making available, at the Facility, repaired or replacement parts subject to the limit of 100% of the original equipment. The transportation costs to and from the Facility or repair shop, shall be borne by the Seller exclusively over the first year of the warranty period, subject to the limit of twenty five percent (25%) of the original purchase price of the equipment. Seller shall be responsible for the Direct Cost of removing the apparatus from service, transportation to and from the place of repair and reinstallation of the apparatus at site (In/Out). Direct Cost excludes expenses for removing fire walls, installing temporary equipment and incremental costs of supply



service. At the end of the first year of the warranty, the cost of removal and reinstallation of the defective Equipment is the responsibility of the purchaser. The Purchaser acknowledges and agrees, that any repair or replacement of the Equipment shall not renew or extend the Warranty Period. The Purchaser further agrees that the Seller shall have no liability to the Purchaser beyond the expiration of the warranty period, and that the within warranty shall be void if the Equipment had been improperly installed or maintained, operated under abnormal conditions, or contrary to the specifications or instructions of the Seller. The purchaser expressly agrees that, aside from the foregoing, the Seller has not given, and is not bound by, any warranty regarding the equipment, or liability whatsoever including any and all incidental or consequential damages, expenses or loss of use or profits.



SECTION 3: TECHNICAL COMMENTS AND CLARIFICATIONS

JEA Technical Specifications - Autotransformers

Clause 3.6.5: LV On Load Tap Changer (OLTC)

LTC is provided for LV voltage variation and is at the neutral end of auto transformer in line with the name plate of existing unit. This is a variable flux design and please refer to voltage table for the LV voltage at different tap positions. We have considered RMV II 2000A vacuum type LTC and so LTC filters are not required

Clause 3.6.6: HV De-energized Tap Changer (DETC)

DTC not provided as per addendum clarification

Clause 15: Tank Construction

Please refer to write up on our tank construction in Section 5 of the Bid Proposal.

Clause 17: Paint:

We have included PTI Standard Paint System in the Quoted Price. Please refer to write up on our paint system in Section 6 of the Bid Proposal.

Clause 22: Autotransformer Online Monitoring Requirements

For this, our proposal is considering the Qualitrol QTMS system complete with bushing monitoring module, and the Qualitrol Serveron TM8 as an integrated solution. Please note however the TM8 does require a carrier gas. We would need to utilize an alternative DGA monitor such as the Kelman DGA 900 to avoid use of carrier gas if required. Please refer to brochures included in Section 6 of the Bid Proposal.

Other Comments

Oil quality for site oil:

In case tanker oil does not meet the listed criteria, it will be processed after filling in transformer and oil results checked to meet the requirements

Tests:

Induced test with PD measurements will be performed as per IEEE/CSA standards as applicable. The test levels will be as per the standards and the preferred measurement is only pico-coulombs as they are more reliable to assess healthiness of internal insulation.



Sound level:

Unless otherwise specified, the guaranteed sound level is Sound pressure at No load without fans and at no load with fans. Tests will be performed for these conditions. Sound power will be calculated when specified. Sound level under load will be performed only when specified. Octave band measurements will be performed only when specified. Additional price if any will be in the quote.

DGA limits:

DGA limits will be as per C 57.130

External clearances:

Unless otherwise specified, external air clearances for bushings will be based on IEEE/CSA standards. For Surge arresters, the air clearance will be based on supplier recommendations.

Gasket Material:

Unless otherwise specified, the gasket material supplied will be Nitrile with a temperature range -54° to + 104° C (-65° to +220° F). O-Ring gaskets in machined grooves are used on circular openings, with flat gasket material inside metal gasket stops on rectangular openings.

For special requirements/or at additional cost we can supply Flourosilicone gaskets with a temperature range of -57° to + 232° C (-70° to +450° F). Price adder for this option is \$15,000 USD per-unit.

Gas Collection Configuration:

Unless otherwise specified, bushing turrets are fitted with internal gas deflectors to avoid the need for gas piping between the turrets and the GRD pipework. This also improves safety when working on the cover many pipe connections on cover are avoided.

Core/Clamp Ground:

Unless otherwise specified, the core assembly and the clamp assembly ground connection cables are each brought out through a 1.2kV/30kV BIL bushing and grounded externally with a removable cable to facilitate testing.



SECTION 4: TECHNICAL DATA SHEETS & OUTLINE DRAWINGS

PTI TRANSFORMERS LP Power Transformer Specification 01/24/2022 Date: For: JEA Spec No. West Jax Substation T1 Q100513 Proposal No. Q100513 Item No. RATING H Winding X Winding Type: AUTO Class Y Winding Phase: 3 kV kV 230 kV 69 13.8 Hertz: 60 **ONAN** MVA MVA MVA 180.00 180.00 Buried Temp. Rise: 65 ONAF 240.00 MVA 240.00 MVA Insul Liquid: Oil **ONAF** 300.00 MVA 300.00 MVA Service: Outdoor ADDITIONAL TAP VOLTAGES H Winding X Winding LTC +/- 10 +/- 16 Steps CONNECTIONS FOR OPERATION Connected To Transformer To To Transformer From Transformers in Bank Phase Phase Connected WYE LV WYE PERFORMANCE BASED DIELECTRIC TESTS **INSULATION LEVELS** ON A LOADING OF Winding Voltage H Winding Applied MVA Winding Voltage per ANSI Item BIL H Winding 180 X Winding per ANSI H Line 230 Voltage 900 X Winding Y Winding per ANSI 69 180 350 Y Winding X Line 13.8 Buried Induced Line-Line per ANSI Voltage Line-Ground per ANSI PERFORMANCE DATA, Based on 85 °C Reference Temperature 300.00 MVA REGULATION **Losses and Exciting Current at** (approximate) Excitation No Load KW Load KW Total Loss KW % Regulation %lex Power Factor Guaranteed Guaranteed Guaranteed 100% 0.02 approx. 58.00 872.00 930.00 1.0 0.68 4.20 110% approx. 0.8 0.02 0.8 P.F Lead -3.18 AUXILIARY LOSSES (cooling losses only) MECHANICAL DATA Transformer MVA KW Aux. Loss **Not For Construction Purposes** ONAN 180 0.00 ONAF 240 5.00 300 **ONAF** 10.00 For dimensions please refer to attached drawing PERCENT IMPEDANCE VOLTS **AVERAGE SOUND LEVEL** at MVA Connection 82/83/84 dBA per ANSI standard 180 6.20 H-X H-Y test methods Y-X Net Weight in lbs Core and Coils: 224,968 **EFFICIENCIES** Tank and Fittings: 125,879 (approximate) MVA Rating 1 1/4 Load Full Load 3/4 Load 1/2 Load 1/4 Load 20806 U.S. Gal. 149,110 180 99.37 % 99.48 % 99.59 % 99.69 % 99.75 % Total Weight: 499,957 98.98 % 99.17 % 99.37 % 99.56 % 99.72 % 298,090 300.00 Shipping Weight:

PERMISSIBLE SHORT TIME OVEREXCITATION OF AUTO TRANSFORMER

Rev 0

P.U. Excitation = 18-Jan-22

MVA 300 P.U. voltage relative to rated voltage 8:33:12

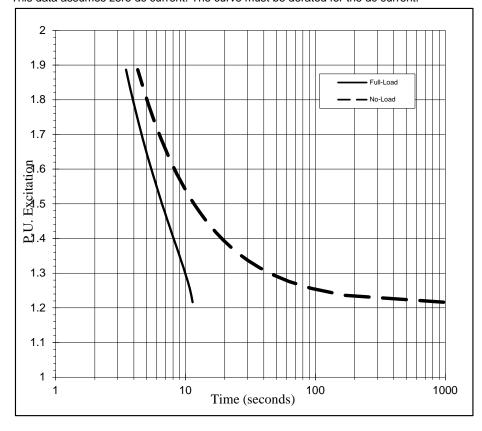
P.U. frequency relative to rated frequen V2.00

Voltage 230KVY -69KVY

Rated Freq: 60Hz Excitation: HV

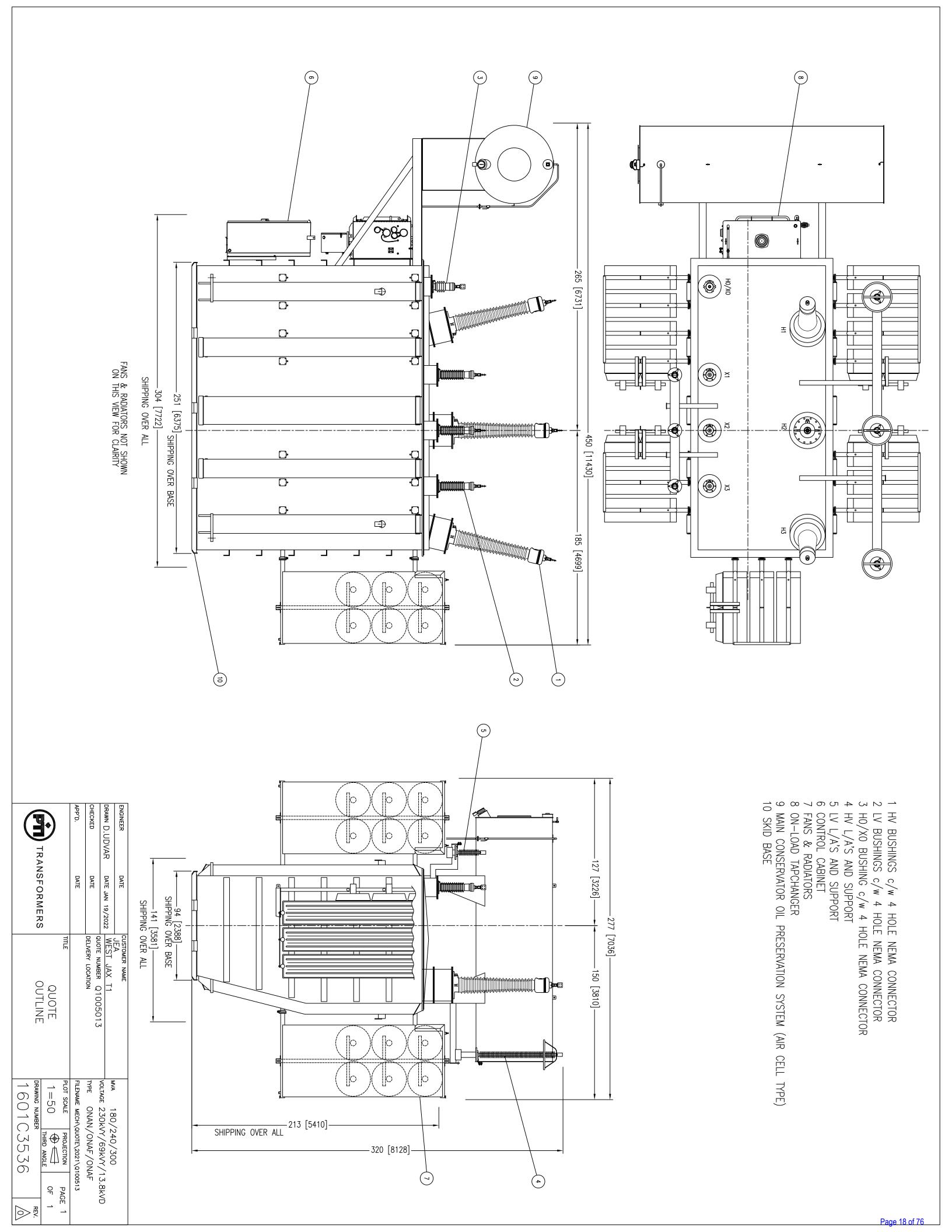
Customer JEA Q100513

Maximum continuous overvoltage without dc current = 1.1 pu
This data assumes zero dc current. The curve must be derated for the dc current.



Q100513 - LV Voltage Table

16R	75950
15R	75525
14R	75100
13R	74700
12R	74275
11R	73850
10R	73400
9R	72975
8R	72550
7R	72125
6R	71675
5R	71225
4R	70800
3R	70350
2R	69900
1R	69450
N	69000
1L	68550
2L	68100
3L	67625
4L	67175
5L	66700
6L	66225
7L	65750
8L	65300
9L	64800
10L	64325
11L	63850
12L	63375
13L	62875
14L	62400
15L	61900
16L	61400





SECTION 5: COMPANY PROFILE



COMPANY PROFILE ◊ PTI TRANSFORMERS LP



PTI is a **Canadian family-owned business that is financially sound**. PTI began, in 1989, as a small maintenance and repair shop and currently employs more than 330 people.

PTI has two (2) transformer facilities one (1) of which is located in Regina, Saskatchewan and one (1) in Winnipeg, Manitoba.

The Winnipeg, Manitoba, facility, called PTI Transformers LP,

PRODUCT RANGE

- Substation transformers
- GSU transformers
- Auto-transformers
- Phase shifting transformers
- Mobile substation transformer
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV to mobile substations
- o tin to 750 MVA for caring
- O LTC & DETC

was purchased under a fixed asset deal in November 2015 from CG Power Systems Canada Inc. which included design technologies up to 525 kV and HVDC technology. The facility manufactures medium and large power transformers up to 750 MVA top rating, with primary voltage up to 525 kV and mobile substation up to 100 MVA ODAF, and primary voltage up to 230 kV.

PTI Transformers operated previously under brand-names CG Power Systems Canada, Pauwels and Federal Pioneer. The facility is known in the industry for having a very reliable **core designs** with an in-field failure rate that is **less than 0.01%**.

The 200,000 sq. ft. facility is state-of-the-art with environmentally controlled critical areas, such as the winding area and insulation area.

PTI Transformers is ISO 9001:2008 and ISO 14001:2004 certified

The Regina facility manufactures liquid filled distribution, small and medium power transformers up to 40 MVA top rating with primary voltage up to 138 kV.

PTI, Regina, is ISO 9001:2008 certified.

PTI, Regina facility, developed a "Portable Outdoor Distribution Station", called POD's, through 145 kV, which allows our customers to significantly reduce construction and installation costs compared to building a conventional substation.









COMPANY PROFILE ◊ CORE COMPETENCY

The PTI Transformers medium and large power transformers as well as the mobile substations are designed and manufactured to meet or exceed the customer expectations while complying with the applicable industry standards.

All option and special features are incorporated into the original design per customer's specification.

LTC & DETC design is available as well as ONAN, ONAF, ODAF and ODWF cooling.

All standard accessories as per customers' specification are included.

-	D. Marie	Volt	ages	Phase	
Transformer Type	Rating*	HV	LV		
Substation transformers	Up to 750 MVA	Up to 525 kV	Up to 69 kV	1 or 3	
Auto transformers	Up to 750 MVA	Up to 525 kV	Up to 345 kV	1 or 3	
Generator Step-Up Transformers	Up to 750 MVA	Up to 525 kV	Up to 34.5 kV	1 or 3	
Mobile substations	Up to 100 MVA	Up to 230 kV	Up to 115 kV	3	

^{*} Rating is top rating











PRODUCT RANGE:

- O Substation transformers
- CSII transformore
- Auto-transformers
- Phase shifting transformers
- Mobile substation transformer
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV for mobile substations
- 0 Up to 750 MVA top ratin
- O LTC & DET





COMPANY PROFILE ♦ LONGEVITY OF TRANSFORMERS THROUGH PD CONTROL



Utilities value assets, network reliability and safety. It is for this reason that PTI Transformer's design and manufacturing of utility grade transformers, (substation power transformers, auto-transformers and GSU transformers), are focused on having an unmatched low partial discharge (PD) of less than 25pC, when subjected to the induced voltage test per IEEE standard C57.12.00 and C57.12.90.

These IEEE standards prescribe a PD level of lower than 500pC. An upcoming reduction of allowable PD level to 300pC, is already being reflected in most of the utilities' specifications. This future acceptance level, i.e. 300pC, has long been adopted by PTI Transformers as its internal manufacturing PD limit for all power transformers manufactured.

PD is a major contributing factor in the degradation of any power transformer insulation, which ultimately leads to reduction of life expectation and ultimately to transformers failure, furthermore leading to a reduced grid reliability.

PD is an electrical discharge or spark that bridges a portion of the insulation between two conducting electrodes. It can

occur at any point in the insulation system, where the electric field strength exceeds the breakdown strength of that portion of the insulating material. PD can occur in a gaseous, liquid or solid insulating medium. It often starts within gas voids; such as voids in insulation or bubbles in transformer oil. Protracted partial discharge can erode solid insulation and eventually lead to breakdown of insulation.

Testing PD as a standard practice, by all means, provides clear evidence that the transformer is fit for installing in a way that is not likely to lead to failure and will contribute to longevity.

Once PD activity is present, even if it is intermittent, damage will always increase over time, unless the cause of such source is corrected. The process of deterioration can propagate and develop, until the insulation is unable to withstand the electrical stress, leading to breakdown. PD activity is a clear indication that the transformer's insulation is deteriorating in a progressive manner, which will eventually result in it being unable to withstand the electrical stress, leading to insulation breakdown which may result in a catastrophic failure and finally lead to outages.

PD can usually be prevented through careful design and material selection. In critical high voltage equipment, the integrity of the insulation is confirmed using PD detection equipment during the manufacturing stage as well as periodically through the equipment's useful life. PD prevention and detection are essential to ensure reliable, long-term operation of high voltage equipment used by electric power utilities.

PTI Transformers, with decades of designing and manufacturing high voltage power transformers, has the necessary expertise in designing PD-free transformers, detecting and measuring PD activities.





PTI Transformers measures PD on all power transformers it manufactures; therefore, supplying specific untapped value to our customers and contributing to the network reliability and safety.

Measuring PD on a regular basis is important and is key, however, PD control starts with good design criteria for PD free condition, such as the limits for averaged and point stress (i.e. Weidmann criteria), avoiding sharp electrodes for each specific voltage class and capability to analyze complex geometries using 2D and 3D electric field solvers. Hence these are stringent design criteria that must be present at the manufacturer and more specifically in the manufacturing space itself. This must be considered when purchasing the transformer and should be questioned at time of evaluation.

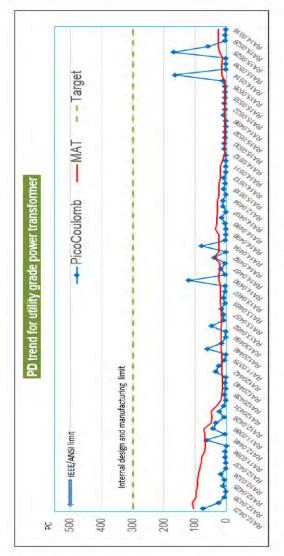
A PD-free design is not only driven by design, but also through stringent quality control of insulating materials, workmanship, cleanliness of work environment and moisture control in the manufacturing processes.

As indicated previously, power transformers are subjected to the induced voltage test per IEEE standard C57.12.00 and C57.12.90. with PD measurement prescribed.

Notwithstanding these standards and self-imposed minimum PD levels, the quality of our design guarantees longevity through even more stringent control of PD level on all power transformers manufactured.

Over the past recent period of one-hundred (100) transformers manufactured at PTI's Winnipeg facility, 90% tested at PD levels of less than 50pC, of which, the majority (94%) tested at 25pC or less.

The graph on the right demonstrates the results discussed in this profile sheet.







ENGINEERING INNOVATION ♦ 300 YEARS OF CUMULATIVE EXPERIENCE

PTI Transformers Engineering team has over 300 years of cumulative experience in design and development of transformers PTI Transformers is always very active in working together with lead customers on the development of new solutions in large power transformer engineering.

The progress in this area was achieved through:

- (i) Pro-active interpretation of customer's specification, looking for most economical solution for the customer. As example the customer was looking for design of a spare GSU for a few locations with different LV voltages and same HV voltage; the original specification called for reconnectable LV winding which at 600MVA power rating would extremely impractical; instead we proposed and developed with MR, Germany a new multi-position de-energized switch for HV side, which allowed to generate all required ranges of HV voltage with different supply voltage at LV terminals (with variable flux design) see reference [5]
- (ii) Common research with a power utility, also through University of Manitoba, Winnipeg, MB and Poznan University of Technology, Poland – see e.g. [2, 3, 6.7] Example - Study of transformers' operational problems with moisture ingress - see [4]
- (iii) Publication of recent achievements in conference papers or international journals see [1-14]
- (iv) Participation in international standardizing organizations (IEEE, IEC) to promote implementation of solutions and new materials, e.g. in IEEE Standard C57.54 IEEE Standard for the Design, Testing, and Application of Liquid-Immersed Distribution, Power, and Regulating Transformers Using High-Temperature Insulation Systems and Operating at Elevated Temperatures (CG was represented by a few persons in the IEEE Working Group providing required input related to thermal

- performance and implementation of high temperature materials, such as aramid paper and board)
- (v) Knowledge sharing with customers through seminars, e.g. Weidman seminars, IEEE tutorials, customized presentations to customers
- (vi) In-depth design reviews with customer's consultant(s) before and after award of the contract to search for cost savings opportunities
 As example PTI developed a large phase-shifting transformer with both exiting and series units housed in one tank this reduced the footprint of the unit in the station, simplified transport and allowed for easier operation of the unit see ref. [8-9].
- (vii) Contribution to development of integrated design solution to achieve optimized design with transient, thermal and short circuit strength verification
- (viii) Expertise to design and manufacture design solutions to special requirements of customer like Mobile substations up to 230kV class, HVDC converter transformers, units with dual LV in zig-zag connection, GSU unit with 500kV-230kV reconnection, Universal spare GSU units with different LV voltages, Phase shifting transformers
- (ix) Collaborative design solutions for site operation, e.g. Reverse power flow studies

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COMPANY PROFILE & ENGINEERING



At PTI Transformers we realize that the design of power transformers, with primary voltage through 525 kV, requires a very high level of expertise which we have in-house

Our senior engineers are members of the IEEE and are active at various IEEE transformer working groups or committees and are experts on NEMA, IEEE/ANSI, CSA and IEC standards.

Our transformers are designed to the specifications and applications as per our customers' request.

Through special in-house developed software, we optimize every transformer in relation to labor and current material cost and loss evaluation together with eventual noise level restrictions imposed. We evaluate transformer behavior during short-circuit conditions, as well as the analysis of specific areas where high electrical stresses can occur during normal transformer operation. Part of our design verification is hinged on the calculation of distribution of voltage stresses during lightning impulse and switching surge conditions.

Should seismic calculation and withstand be required we can provide static or dynamic design evaluation to ensure the transformer will withstand the specified customer requirement.

The PTI Transformers LP engineering staff, entails a group of twenty-six (26) full-time engineers having a total of 336 years of experience.

Our engineer staff, members of the IEEE and CIGRE organization, are using robust and proven designs philosophies which in turn translates in an ultra-low in-filed failure rate of less than 0.01%. We are using 3D fabrication drawings to further reduce the first pass yield to industry standards.

Department	E of people	Avg. senionly	read sentently
Mechanical engineering	14	13.33	186.62
Electrical engineering	10	6.29	62.90
Engineering management	2	43.50	87.00
Total years	26		336.52

Our senior engineers are well respected in the North American transformer market, below their biography:

Dr. Waldemar Ziomek - Engineering R & D Manager

Waldemar started in 1997 with Pauwels Canada Inc. as a design engineer and became in 1999 their Engineering Manager through 2014. Today, due to his vast experience he is the **Engineering R&D Manager at PTI Transformers**. He as a PhD, in EE, from the Poznan University of Technology specialized in Electric Power and High Voltage Engineering, as well as a MSC degree in Electric Machines and Apparatus.

As Manager of Engineering he designed the insulating structures as well as supervised designs and the manufacturing of 500+ power transformers between 1999 and 2014; entailing substation transformers, generator step-up transformers, auto-transformers, phase shifting transformers, and HVDC transformers. Although, PTI Transformers LP is not manufacturing transformers with a primary voltage up to 765 kV, he was part of the 765 kV development team.

He published over sixty (60) papers for various organization or institutions such as CIGRE and IEEE, this concerning





transformer insulation, vacuum insulation systems, gaseous dielectrics and discharge recognition methods.

He is a current member of the IEEE Power Engineering Society, Transformer Committee, IEEE standards association, CSA and CIGRE.

Currently he is also Adjunct Professor at the University of Manitoba.

Krishnamurthy Vijayan - Engineering Manager

From 1981 through 1989, Vijayan was the Senior Electrical Design Engineer at Crompton Greaves Ltda., India. From 1998 through 2001, he was the Engineering Design Manager at Crompton Greaves Ltda., India. He immigrated to Canada in 2001 as Senior Electrical Design Engineer for Pauwels Canada Inc./CG Power Systems Canada Inc. Vijayan was promoted to Head of Electrical Engineering with CG Power Systems Canada Inc. and promoted as Engineering Manager in 2014.

He has a Master of Engineering with specialization of High Voltage Engineering from the reputed University, Indian Institute of Science in India.

Although, PTI Transformers LP is not manufacturing transformers with a primary voltage up to 765 kV, Vijayan was part of the CG Power Systems, Hungary, 765 kV development team. He was also part of the development team for 1200kV auto-transformer by the CG group.

He was directly involved in the electrical design of 420 kV shunt reactors, 750 MVA top rating 3 \varnothing auto-transformers, 200 MVA 1 \varnothing generator step-up transformer, 650 MVA 3 \varnothing generator step-up transformer, 200 MVA 3 \varnothing phase shifting transformer as well as a 600 MVA 3 \varnothing universal generator step-up transformer and not to forget the development of a 3 \varnothing 230 kV mobile substation transformer.

He published over twelve (12) technical papers for various organization or institutions such as CIGRE and IEEE, this concerning Shunt reactors, Phase shifting transformers,

Universal spare GSU transformers, Mobile substation, Smart transformers and Geomagnetic induced currents in transformers.

In short, Vijayan has over thirty-eight (38) years of large power, transformer, EHV shunt reactor, phase shifting and mobile transformer experience.

PRODUCT RANGE:

Substitute transformers
SUU transformers
Auto-transformers
Phase softling transformer

Mobile substation transformer

Primary voltage up to 575 s V
Primary voltage up to 130 s V formobile substations

Up to 750 MVA top rating
ETC & DETC-





COMPANY PROFILE QUALITY MANAGEMENT SYSTEM



PTI Transformers LP is ISO 9001:2008 certified for "power transformers up to 1,000 MVA, with a primary voltage class up to 765 kV and mobile transformers".

Our quality philosophy is:

- To provide best in-class power systems of exceptional quality and productivity
- To be a customer-focused organization through the translating customer requirements into world class power systems
- To foster a creative work environment that promotes employee innovation, development, and engagement
- To continue improve our operations, systems and productivities
- To develop and sustain and exceptional supply chain network that delivers quality products and services every time, through a mutual beneficial customer supplier relationship

On a periodically basis, as prescribed by the quality manual, reviews at the level of management are made to evaluate key performance factors related to the quality policy and quality

objectives, which are shared through the organization in words and in action. This review process is described in detail in the controlled quality manual and this for all level of the organization; hence we are truly a made-to-order organization. Not only do we focus on in-house control PTI Transformers, through internal audits, customer satisfaction is of paramount importance and is the primary responsibility of each employee; hence on regular basis customer surveys are conducted to analyze the effectiveness of our quality management systems.

Each of all quality management processes are monitored and measured by the respective process owners through through their selected Key Performance Indicators (KPI's). Process owners must select KPI's that allow them to monitor their process or department's performance, and to be able to react where corrections or improvement are required to adhere to adhere to the quality objectives set. Measurement of success and failure is contribution to PTI Transformers LP success as a first-class large power transformer supplier.

The success of PTI Transformer's quality process control is hinged on the following corner-stone procedure; and these are:

- Control of documents procedure to establish and maintain a process for review, approval, distribution and control of all essential documents related to ISO 9001 Quality Management Systems (QMS) and ISO 14000 Environmental Management System (EMS).
- Sales procedure to establish and maintain a process for all request for quotations within the organizations and provide guidance of execution though flow chart control.
- Design procedure to establish and maintain a process for all quotation design with the design tools in place through flow chart control.
- Manufacturing procedure establishes a well-documented manufacturing procedures and work instructions for all of our fabrication and manufacturing processes, including collection of relevant manufacturing data.
- Contract administration procedure to establish and maintain the contract administration function within the organization and to provide guidance through flow-chart control.
- Scheduling procedure to establish and maintain a process for scheduling through the organization and at all levels of the organization and to provide guidance through flow-chart control.

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- Design-to-order procedure to establish and maintain a design process for transformers orders within the engineering department and to provide guidance through flow-chart control.
- Manufacturing procedure -
- Inspection and testing procedure to establish and maintain a process for inspection and testing process for all products manufactured at PTI Transformers LP
- Getting ready for transportation to establish and maintain a process for testing the product and all associated parts and preparing it for shipment to defined location as specified in the customer's contract.
- Shipping and invoicing to establish and maintain a process for shipping and invoicing for the product manufactured by PTI Transformers LP.

PTI Transformer's objective is well defined in our QMS and are solely related to ensure that the manufactured products perform safely and reliably, meeting the requirements specified by its customers and providing excellent life cycle value; while considering that for the most part people are driving the quality of organization and products supplied.

Therefore, we measure success and failure within the PTI Transformers organization as defined in the QMS manual, these are:

- Continual improvement to establish and maintain continual improvement processes throughout the organization
- Preventative action to establish and maintain a process to induce preventive action processes throughout the organization to identify and eliminate the causes of potential nonconformities to prevent their occurrences
- Control of non-conformances to establish and maintain as process for identification, segregation and disposition of nonconformances of the product manufactured to further prevent its unintended use of delivery

The continual improvement processes include the monthly measurement of:

- First pass yield
- In-field failures
- Cost of poor quality (COPQ) as a percentage of net sales
- Efficiency in production as a measure of throughput time
- EHS
- Quality of supply
- Inventory control

The PTI Transformers QMS and EHS program is geared towards safe operation of the product manufactured as customers are depending on high quality products to contribute greatly to the stability of their grid system in various shapes and forms. Indeed, the PTI Transformers power transformers are in fact an investment in our technology that needs to be secured for decades. Our customer's investment is secured through our processes implemented therefore inducing consistent quality of the product and its vital parts.

PTI Transformers LP does not compromise on quality; this through systems put in place and rigorous acceptance testing which ultimately has resulted in an "in-field failure rate of less than 0.01%".

PRODUCT RANGE

- Substation transformers
- o CSU transformer
- · Auto-bansformer
- Phase shifting transformers
- Mobile substation transforms
- Primary voltage up to 525 kV
- : Primery voltage up to 230 kV fu
- mobile substitutions
- Up to 750 MVA top rating
- LTC & DETO





COMPANY PROFILE CORE CONSTRUCTION



PTI Transformers medium and large, power transformers are always **core form** design, two (2) legged, three (3) legged or five (5) legged depending on customer requirement and application.

All cores are of circular cross section, step-lapped design with fully mitered corner joints to minimize core loss, coated with carlite to increase the interlamination resistance and to reduce eddy current and reduce sound level.

Computer controlled core shears accurately cut mitered laminations using the fully automated Georg 1000 core cutting machine. Once stacked, the exposed core edges are coated with low viscosity high tensile strength epoxy resin, which penetrates and bonds the laminations.

Our cores are carefully designed to limit core surface temperatures and leakage fluxes, and are constructed **without** through-bolts to eliminate a potential source of overheating. Core legs are additionally bonded with fiber-glass reinforced bands. Based on design, core top yoke is bonded with Nomex®/Kevlar® bands for mechanical integrity.

Where loss evaluations justify its use, core steel used is high grade, non-aging, grain-oriented, electrical silicon steel of low hysteresis loss and high permeability; hence we select M4-grade and laser-scribed steel.

We only use step-lap core principle to reduce losses, magnetizing current and sound level. The cores are fully-mitered on all joints in order to improve the flux distribution.

The laminations are stacked in steps, resulting in a circular core shape which gives the windings optimum radial support, especially during short-circuit conditions. The temperature rise of the core is designed to be low and is controlled. If required by design, and customer requirement, vertical oil ducts are placed within the core packets.

The core is clamped using structural steel clamps which provide high strength under both static (lifting and clamping) and dynamic (short-circuit) mechanical loads. The clamps are very lightweight for their strength and provide a smooth surface facing the winding ends, eliminating regions of high local electrical stress.

PRODUCT RANGE

- Substitution transformer
- GSU transformers
- Auto-transformer:
- Phase shifting transformers
- O Mobile substation transforme
- Primary voltage up to 525 KV
- Primary voltage up to 230 kV for mobile substations
- Up to 750 MVA top ratin
- ULTC & DET





COMPANY PROFILE ◊ WINDINGS



Windings are of the circular concentric type, because this shape results in the highest short-circuit strength and provides excellent cooling performance with natural or forced oil flow. The copper conductors are paper covered magnet wire (single, twin, or triple), or continuously transposed cable and designed to optimize eddy loss and withstand anticipated short circuit forces. Low-voltage windings are made with netting tape/perforated Nomex® insulation for better thermal performance. The inner windings are designed to withstand inward radial forces based on ability of conductor to resist forces in a "free-buckling" mode. All the CTC conductors are epoxy bonded for high mechanical strength. High voltage windings are designed with special shielded windings without any joints for better impulse strength. Custom designed static rings are normally used to control the electric field at the ends of windings.

Insulation materials are made from pre-compressed boards of high mechanical and electrical strength. Insulating material is cut to size. End blocks and supporting structures are fabricated in the plant insulation shop or by PTI Transformers LP approved insulation manufacturers. All angle rings and caps are made of molded pressboard, with contoured profiles, in order to increase the dielectric withstand.

Directed oil flow is typically used to provide enhanced cooling and to limit hot spot temperatures. The oil flow washers/seals direct the oil flow in a zigzag pattern through the windings to provide effective cooling. For the units with forced cooling the oil from pumps is directed into the windings (ODAF) where oil enters through the oil holes in the bottom insulation; it is distributed through the oil reservoir into all windings, continues throughout the winding in zigzag pattern and leaves the coil assembly at the top. This system is superior to the OFAF method in which the oil is pumped into the tank, cooling only the bulk volume of oil and not the oil in the windings. After the individual coils are wound, they are initially sized, dried in the auto clave vacuum oven, and then sized again with a clamping pressure of 600psi (4 N/mm2). Critical windings are sized under spring pressure. After drying, they are sized to the required axial height to ensure short circuit performance. The coils are combined together into the coil assembly and then completed with end insulation. The coil assembly is next compressed to ensure correct positions of all windings within the coil assembly. The Winding area has been completely refurbished to isolate the department and provide a dust free environment. Positive air pressure is maintained by filtered air make-up units to ensure that positive air flow is provided in the shop. This air flow minimizes the intake of non-filtered air through open doors etc. and ensures that air-borne contaminants are kept to a reduced to a level that will ensure a clean production environment.

PRODUCT RANGE

- Substation transformers
- GSU transformer
- Auto-transformers
- Prime animing transformers
- Mobile substation fransforme
- Primary voltage up to 525 kV
- mobile substations
- Up to 750 MVA top ratin





COMPANY PROFILE & CORE & COILS ASSEMBLY



Prefabricated coil to clamp insulation is fitted on the bottom clamps prior to placing the coil assemblies concentrically on the core legs. The major insulation is usually of rigid form. It is prefabricated in a specially designated insulation area, isolated from other departments to provide carefully controlled clean and dry manufacturing and storage environment.

After the coils are lowered into place, the top pre-fabricated coil to clamp insulation is placed in position and the top yoke of core steel and box clamp are added. The coils are clamped axially by tie rods, or tie-plates, made of high tensile strength steel, as required by design. The core clamps and tie rods (or tie-plates) are designed so that the coils cannot shift during shipment and can withstand the maximum forces that may develop under short circuit conditions.

All leads and bus-bars are rigidly supported to withstand shipping and short circuit forces. Supports are made of high density pressboard with specially developed fiber-glass reinforced epoxy hardware.

All steel projections are located in areas of low electrical stress and, where necessary, high voltage leads are insulated using contoured insulation or shielded by metal tubes to minimize the local electrical stresses. The core & coils assembly is

thoroughly inspected before it goes into the vapor phase process.

During the manufacture of HVDC units, a clean room is utilized to minimize the opportunity for active part contamination. The structure is erected in the assembly area and positive air flow provided through portable air filters. Employees are required to dress in lint free coveralls and entrance to the area is controlled and limited only to employees involved in the project and fully compliant with clean room procedures.

PTI Transformers LP core and coils are of robust quality and design, which ultimately has resulted in an "in-field failure rate of less than 0.01%".

PRODUCT RANGE

- Substation transformer
- GSU transformers
- Auto-transformer
- Phase shifting transformers
- Mobile substation transformer
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV for mobile substations
- · Up to 750 MVA too rating
- OLTC & DETC





COMPANY PROFILE ♦ VAPOR-PHASE PROCESSING



Increasing quality requirements demand a more and more careful treatment under vacuum. After the initially applied technologies such as the hot-air circulation process, the vaporphase drying process nowadays is the most efficient method to treat power transformers. At PTI Transformers LP we use a Hedrich system, 400 kW, cascade evaporator.

The completed core and coil assembly is thoroughly dried by the vapor-phase drying process to achieve the predetermined parameters, such dew point and water content in cellulose insulation (less than 0.3% moisture content in insulation).

The core and coil assembly is heated to 50C, by injecting kerosene vapor into the autoclave; afterwards the autoclave internal pressure is lowered to 35mbar for 2 hours. Then kerosene vapor is injected again and the core and coil assembly is now raised to a temperature 85C with a vacuum to 30mbar and this for 2 hours. A new kerosene vapor cycle is introduced now with the core and coil assembly reaching a temperature of 110C with vacuum to 30mbar for 2 hours. At the final heating cycle the core and coil assembly is raised to 120C and the autoclave internal pressure is then lowered to 25mbar for 1 hour. The chamber is then placed under fine vacuum; minimum end criteria for vacuum is 0.15mbar or less for a minimum of 3 hours with all other process parameters met.

The core and coil assembly must be at a minimum temperature of 115C at the end of the fine vacuum cycle and water extraction rate must be 14 g/hr/tonne. Only then these parameters together give an insulation moisture level of 0.3% or less as required.

The vapor phase is a fully automated machine with 24 hours fully automated monitoring and logging.

As the environment in the autoclave is essentially oxygen free, temperature reaching 120°C can be utilized without damage to the insulation or loss of life.

After the core and coil assembly is removed from the autoclave, the assembly is completely retightened, while hot, to take up all shrinkage, then cleaned, inspected, and promptly tanked within the times set by design.

PRODUCT RANGE

- Substation transformers
- GSII Iransforman
- / Auto-transformer
- Phase shifting transformers
- Mobile substation transformer
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV for mobile substations
- Up to 750 MVA top rating
- LTC & DETC





COMPANY PROFILE & TANK MANUFACTURE



Transformer tanks are constructed of mild-steel and designed to withstand normal operating conditions, application full vacuum, lifting, jacking, and skidding.

The completed tank and accessories are abrasive blasted to remove all mill scale and contaminants, and coated with a robust plural component coating system that exceeds IEEE recommended performance standards.

Adequate facilities are provided on the tank for lifting, jacking and pulling, as per CSA, IEEE/ANSI or even IEC. Openings in the cover are formed by raised flanges designed so that the fasteners do not extend through the cover. Hand-holes and/or manholes are provided for easy access to the active assembly within the tank, access to internal bushing connections etc. Tank bases are made from structural shapes or thickened base plates.

PTI Transformers is Canadian Welding Bureau certified for welding design, practices and procedures. Only CWB or AWS certified fabrication shops are employed for metal fabrication. Only AWS or CWB prequalified joints are utilized. The tank corner

joint design is a tee-joint with a double fillet weld (one fillet on each side of the plate). As only CWB or AWS certified fabrication shops are employed, all welds are performed to qualified procedures by qualified welders.

The tee-joint corner design of the tanks allows for a flexible joint and increases the rupture resistance of the tank due to possible internal fault. This tank corner welding procedure has been our standard since the early 1970's and no field issues where reported with respect to tanks leaking at the corner joints.

PRODUCT RANGE

- Substation transformers
- GSU transforme
- Auto teansiormer
- Phase shifting transformers
- A Mobile substation transforme
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV for mobile substations
- Up te 750 MVA top rating
- LTC & DETC





COMPANY PROFILE ◊ TESTING



Prior to shipment, all transformers manufactured by PTI Transformers LP are tested in accordance with the latest applicable IEEE/ANSI and CSA standards and customer specifications.

All industry standard and optional tests with the exception of short-circuit tests, are performed in-house at PTI Transformers LP We have well trained personnel and utilize accurate, certified and modern test equipment.

The results of all tests are provided in a certified test report.

PTI Transformers LP performs the tests as listed in IEEE/ANSI C57.12.90 and CAN/CSA-C88-M90.

The PTI Transformers LP are tested as follows:

Performance tests:

- Ratio test
- No load loss and % excitation current before and after dielectric tests
- · Load loss and % impedance
- Zero sequence impedance

Dielectric tests:

- Lightning impulse test include full wave and chopped wave impulse.
- Switching Impulse
- Applied voltage test
- Induced overvoltage with partial discharge measurement (3 phase or 1 Phase)

Thermal test:

- · Winding resistance
- Heat run test
- · Over load heat run
- Dissolved gas analysis (DGA)
- Thermal scan on transformer tank.

Other tests:

- · Insulation capacitance and power factor test on windings and bushings.
- 10 kV excitation current
- Sound level test
- · Megger Insulation resistance (IR) and polarization index (PI) of winding.
- Megger for core, clamp and ground.
- · Recurrent surge test only done on new, critical or if specified be customer.
- · CT test ratio, excitation, polarity, resistance and knee point voltage.
- On load tap changer test for rated voltage and current.
- Magnetic balance test
- Vector group and polarity.
- . The control test on auxiliary equipment.

In process test:

These tests are done during the manufacturing process on core and coil assembly of transformer.

- Core insulation tests.
- Pre-lead assembly ratio test.Winding resistance (optional).

Prior to shipment, and upon customer's request, PTI Transformers LP can do a frequency response analysis (often referred to as FRA or SFRA) which is a powerful and sensitive method for





testing the mechanical integrity of transformer cores, windings, and press frames, in power transformers.

SFRA creates a so-called "fingerprint" of the power transformer. Comparing the measurements taken at various phases or on multiple identical transformers, as well as comparing measurements with the former fingerprint of the same transformer, provide indications of any mechanical or electrical changes after the transformer has been delivered to site.

PTI Transformers recommend testing the frequency response particularly after transporting transformers and after faults at high currents have occurred and compare these with one done prior shipment.



PTI Transformers is equipped with a state-of-the-art digital impulse recording system. The Haefely-Trench impulse system (HAIS) with 16 stages impulse voltage generator of capacity 3200kV and 320 kJ, provides the most accurate analysis of impulse results available today. The electronic recording of the impulse current and voltage waveforms allows quick mathematical comparisons to be made, including the difference between the two waveforms under scrutiny. Accurate printed and plotted final results are quickly available.

For chopped wave tests, a five-stage, 15 gaps, 3000 kV multiple chopping gap is used. The PTI Transformers test bay is capable of performing lightning impulse with chopping and switching impulse tests as per customer requirement and international standards.

For induced testing, a variable voltage alternator, rated 8.66kV, 100 Amps, 3/1-phase, 50 to 240 Hz, is used and solid state speed control of the 1000 HP, DC driving motor with DC voltage 527-700 volts. In the induced potential test, partial discharge (pC) and RIV (μ V) measurements are done with omicron MPD 600 Highend partial discharge measurement system with 6 channel output, it is the best partial discharge measurement and analysis equipment available across the industry.

PRODUCT RANGE:

- Substation transformers
- GSU transformer
- Auto-transformers
- Thase simulity transformers
- Mobile substation transformer
 - Primary voltage up to 525 kV Primary voltage up to 230 kV to:
- mobile substations
- Up to 750 MVA top ratin

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COMPANY PROFILE & PACKING, SHIPPING & LOGISTICS



Medium and large power transformers by their size and weight are challenging to ship. The plant is ideally located to take advantage of both highway and rail links to major transportation arteries in North America. This allows PTI Transformers to ship transformers units to the four corners of the content. PTI Transformers has significant experience in the transportation of large power transformers which reduces the risk of transportation damage for our customer.

We are able to coordinate all of our customer's logistics requirements from a single point of contact (SPOC). PTI Transformer's shipping department can make arrangements for customer's units to be shipped by rail, track, ship or any combination. We will also coordinate the offloading of the unit at the site or storage area and moving the unit to its final location.

We use reputable specialty carries for our trucking requirements and utilize local logistics agencies to establish permits for long haul truck shipments from the plant. Our facility has a railway spur which enters the main building on the east side and allows our staff to load a transformer directly onto the railcar inside the factory.

Our shipping department transports all of the parts and spare

parts for the unit to the site or a location of the customer's choosing. These parts are coordinated to meet the transformer at the site to ensure the economic off-loading of parts and the transformer at the same time.

We use the latest digital sensors and GPS technology to monitor the shipping process while the transformer is on the move. Each transformer can be equipped with digital impact monitor and/or GOS tracing system. This allows PTI Transformers LP to assess whether there were any anomalies during the shipping of the unit and whether there were any impacts that could affect the quality of the product. The GPS tracking system allows us to track the process of the unit in real time and if there are any anomalies in the impact recorder, they can be coordinated with the GPS information after the fact to determine where and when the anomaly took place.

All of the activities related to packing and shipping are controlled by written/illustrated procedures to ensure consistency and conformance to requirements. These procedures are available at the plant for audit at a time convenient to our customers.

FRODUCT RANGE

- Substation transformers
- GSU transformers
- Auto-transformers
- Phase shifting transformers
- Mobile substation transformer
- Primary voltage up to 525 kV
- Primary voltage up to 230 kV for mobile substations
- Up to 750 MVA top rating





COMPANY PROFILE ◊ AFTER SALES SERVICE



PTI Transformer LP's professional service group is ready and capable to fulfill all the after sales service requirements you may have.

Our transformer service group consist of five (5) experienced technicians; fully qualified and safety certified to dress-out large power transformers with primary voltages up to 525 kV.

PTI Transformer's service team carry-out on-site inspections, diagnostics and maintenance activities in addition to on-site refurbishments and repair work.

We have the expertise to perform all required activities on power transformers and load tap changers as follows:

Installations and relocations

- New transformer installs and testing
- Existing transformer relocation
- Commissioning and start-up

Repairs and refurbishment

- Radiator/Cooler replacements
- Gasket replacement & leak repair
- Cleaning and painting
- LTC and DETC refurbishment
- HV & LV bushing refurbishment
- Control box refurbishment

Transformer enhancement and improvement

- Cooling upgrades Breather upgrades
- Controls upgrade
- LTC & DETC upgrades
- Gauges & probes upgrade
- Pressure relief device conversions and ducting

In addition to providing the above mentioned services, PTI Transformers also provides OEM spare parts such as buchholz relay, radiators, WTI/OTI, fans, pumps, bushings, gauges or any other related LTC transformer accessory.

We provide on-site transformer consulting, including surveys, commissioning, internal & external transformer inspections, oil testing and training where required.









SECTION 6: ADDITIONAL INFORMATION

- Reference List
- Short Circuit Capability
- Approved List of Vendors for PTI Manitoba Inc.
- W-8BEN-E instead of W-9
- Certificate of Insurance
- ISO Certificates
- Paint Specification
- Transformer Oil Data Sheet
- Qualitrol QTMS
- Qualitrol Serveron TM8
- Kelman DGA 900

				I		
PTI TRANS	FORMERS - REFERENCE LIST - 3 PHA	ASE AUTO-TRAN	ISFORME	RS		
				1	T	
Ship Year	Customer	Base MVA	Top MVA	HV KV	LV KV	HV BIL KV
2022	Fortis BC	120	200	230	138	900
2022	Manitoba Hydro	84	140	230	66	900
2021	Hydro One (Keith T12)	150	250	239	121	900
2021	Hydro One (Keith T11)	150	250	239	121	900
2022	Hydro One	150	250	239	121	900
2022	Hydro One	150	250	239	121	900
2018	Allete Inc. (Minnesota Power)	200	373	230	115	900
2020	Sask Power	180	300	230	138	950
2019	Sask Power	180	300	230	138	950
2018	Sask Power	180	300	230	138	950
2015	MINNESOTA POWER	200	373	230	115	900
2015	MINNESOTA POWER	100	167	230	115	900
2015	MINNESOTA POWER	100	167	230	115	900
2013	Luna Diversified	120	200	230	115	900
2013	Sask Power	180	300	230	138	950
2013	Sask Power	180	300	230	138	950
2015	Otter Tail Power Company	84	140	230	115	900
2010	National Electric Systems Inc.	90	150	230	115	900
2009	Hydro One	150	250	239	121	900
2009	Hydro One	150	250	239	121	900
2007	Hydro One	150	250	239	121	900
2007	East Kentucky Power Coop.	270	450	345	138	900
2006	East Kentucky Power Coop.	270	450	345	138	900
2005	Fortis BC	120	200	230	132	850
2004	Hydro One	150	250	236.8	121	900
2004	Hydro One	150	250	236.8	121	900
2003	Aquila Networks	120	200	236	63	850
2003	Aquila Networks	120	200	236	63	850
2003	Sask Power	150	250	230	138	950
2003	BC Hydro	90	150	246	69	850
2002	Alabama Electric Coop	134.5	224	230	115	900
2002	Alabama Electric Coop	134.5	224	230	115	900
2002	Sask Power	120	200	230	138	950
2002	Aquila Networks	100.8	168	236	63	850
2002	Aquila Networks	100.8	168	236	63	850
2001	Puerto Rico EPA	270	450	230	115	900
2001	Utilicorp United/ Peak Power Eng	60	100	230	115	900

Ship Year	Customer	Base MVA	Top MVA	HV KV	LV KV	HV BIL KV
2001	Luz Y Fuerza	75	100	230	85	900
2000	Allegheny	120	200	230	135.3	900
2000	Delmarva Power & Light	240	400	230	138	900
1999	Rochester Gas & Elec.	120	200	345	118	900
1999	PacifiCorp	270	450	345	138	900
1996	BC Hydro	90	150	246	69	850
1995	Southern Maryland Electric Coop	120	200	220	69.05	900
1994	Delmarva Power & Light	240	400	230	138	900
1993	Ontario Hydro	75	125	215.5	44	900
1993	Ontario Hydro	75	125	215.5	44	900
1993	Ontario Hydro	75	125	215.5	44	900
1993	Alberta Power	120	200	245	144	950
1993	Ontario Hydro	75	125	215.5	44	900
1993	Manitoba Hydro	120	200	230	115	900
1992	Ontario Hydro	75	125	216	44	900
1992	Ontario Hydro	75	125	216	44	900
1992	Ontario Hydro	150	250	236.8	121	850
1992	Ontario Hydro	75	125	226	125	900
1992	Ontario Hydro	75	125	226	125	900
1992	Ontario Hydro	75	125	215.5	44	900
1992	Ontario Hydro	75	125	215.5	44	900
1992	Ontario Hydro	75	125	215.5	44	900
1992	Ontario Hydro	75	125	215.5	44	900
1992	Ontario Hydro	75	125	215.5	44	900
1992	Newfoundland & Labrador Hydro	75	125	230	66	950
1992	Sask Power	150	250	230	138	950
1991	Ontario Hydro	75	125	216	44	900
1991	Ontario Hydro	75	125	216	44	900
1991	Ontario Hydro	75	125	216	44	900
1991	Ontario Hydro	75	125	216	44	900
1991	TransAlta	240	400	245	144	850
1991	TransAlta	240	400	245	144	850
1991	Sask Power	168	225	230	138	950
1991	TransAlta	120	200	245	144	850
1991	Sask Power	90	150	230	138	950
1991	Sask Power	90	150	230	138	950
1991	Ontario Hydro	150	250	236.8	121	900
1990	Ontario Hydro	75	125	216	44	900
1990	Ontario Hydro	75	125	216	44	900
1990	Ontario Hydro	75	125	216	44	900

Ship Year	Customer	Base MVA	Top MVA	HV KV	LV KV	HV BIL KV
1990	Ontario Hydro	75	125	216	44	900
1990	Ontario Hydro	150	250	237	121	900
1990	Ontario Hydro	150	250	236.8	121	900
1990	BC Hydro	90	150	246	69	850
1989	Ontario Hydro	150	250	237	121	900
1989	BC Hydro	90	150	230	138	850
1989	BC Hydro	90	150	230	138	850
1989	Ontario Hydro	150	250	237	121	900
1989	Newfoundland & Labrador Hydro	75	125	230	138	950
1989	Ontario Hydro	75	125	215.5	44	900
1989	Ontario Hydro	75	125	215.5	44	900
1988	Alberta Power	120	200	245	144	950
1988	TransAlta	120	200	245	144	850
1988	New Brunswick Power	180	300	230	138	900
1988	Newfoundland & Labrador Hydro	75	125	230	138	950
1987	Alberta Power	120	200	245	144	950
1987	Alberta Power	120	200	245	144	950
1987	Alberta Power	120	200	245	144	950
1985	West Kootenay Power	100	168	230	138	900



SHORT CIRCUIT CAPABILITY

Short circuit test is a very special test which is performed to demonstrate the ability of the transformer to withstand stresses due to short circuit during operation. For high voltage transformers this test can be performed only at few special high-power laboratories in the world. At PTI short circuit design capability is verified using special field program. The calculations verify free/forced buckling, radial bending, axial bending, axial stress on key spacer & tilting for inner windings and hoop stress, tilting, axial bending, axial stress on key spacer for the outer winding. CTC conductors are epoxy bonded to enhance mechanical strength. Inner windings are designed for free buckling condition. PTI group has successfully verified the design capability by performing short circuit tests on units up to 315MVA 3 phase and 200MVA single phase units. The list below indicates details of the units successfully tested for short circuit.

Re: SHORT-CIRCUIT TESTING OF POWER TRANSFORMERS

PTI Transformers LP's has manufactured power transformers since 1947.

The Winnipeg transformer manufacturing plant (formerly CG Power Systems Canada Inc.), acquired by PTI Transformers LP in 2015, has been in operation for over 70 years. During this time period, several thousand power transformers were built and installed. Within the entire history of manufacturing power transformers in Winnipeg, there have not been any reported short-circuit failures of units in operation.

A few years after the 1994 Pauwels acquisition of the Winnipeg plant, all Pauwels facilities went through an Alignment Process, resulting in a commonality of design, manufacturing techniques and technology. In particular, the short-circuit calculations and methods for supporting the active part were thoroughly analyzed. All transformers are subjected to like conditions during short-circuit events, whether in testing or in operation. Most manufacturers of large power transformers with experience in the short-circuit testing of units have very similar design techniques to calculate short-circuit forces and stresses, as well as similar production methods and materials. Through the years and after numerous design reviews with customers and their consultants, certain elements of transformer technology become a standard for the industry.

From the early 1970's the Winnipeg manufacturing plant has used practically the same short-circuit calculations. The same set of critical parameters are also used to evaluate the "withstand "of conductors, pressboard spacers and clamping structures.

As stated before, all PTI transformers are designed using exactly the same rules. All PTI transformer units are built using the same technology, materials and processes. This standardization is important as any units built by PTI may be subjected to short-circuit testing. In any event certainly all of them will be subjected to real life short-circuit conditions while in service. PTI Transformers LP is more than willing to subject any of our transformers to short-circuit testing.



PTI Manitoba Inc uses trusted suppliers of active part materials, e.g. ASTA and Nexans for copper conductors, Weidmann for pressboard insulation. All materials were subjected to thorough withstand tests.

In North America it is commonly accepted that a design review is done in lieu of short-circuit testing. Subsequently, we have had only a few units short-circuit tested. This is a common practice amongst transformer manufacturers in North America, and has unfortunately recently lead to the termination of operation of a large power laboratory (IREQ in Quebec).

Globally, there has been a discussion going on for decades, whether to test or not to test the short-circuit performance. CIGRE (International Council on Large Electric Systems) during its general session in year 2000 expansively discussed this issue. There was no consensus on this problem, therefore CIGRE decided not to suggest any method for short-circuit performance evaluation, i.e. to (i) select trusted supplier, (ii) perform own design review, (iii) perform design review with consultant, (iv) short circuit testing. Moreover, based on numerous studies, the rate of short-circuit failures in operation has no relation to the way short-circuit performance is evaluated (see CIGRE report by Working Group 12.19 in Electr. No203, August 2003).

In conclusion one may state:

- The fact that only a few transformers built by Winnipeg plant have been short-circuit tested is typical for the North American industry, where design reviews are seen as sufficient method of approving the short-circuit performance of units;
- PTI Manitoba Inc is willing to subject any units to short-circuit tests. The cost for this service would be an extra to the contract.

Regards,

Dr. Waldemar Ziomek, Director of Research & Development



PTI APPROVED LIST OF VENDORS

Component	Vendor Name	Country of Origin
Core	Cogent Power Inc.	Canada
Copper Conductor	Essex Group Canada	Canada
	Sam Dong Inc.	USA
Insulation	Weidmann Electrical Technology Inc. USA	USA
	Canduct Industries Inc.	Canada
Transformer Tank	W.S. Machining & Fabrication	Canada
LTC	Reinhausen	Germany
Bushings	ABB	USA
	HSP	Germany
	Electro-Composite	Canada
Arresters	Cooper	USA
	Ohio Brass	USA
Oil	Nynas	Canada
	Petro Canada	Canada
	Calumet Lubricants Co.	USA
Current Transformer	Polycast International	Canada
	Meramec Instrument Transformers	USA
Control Box	Celco Controls Ltd.	Canada
	Indus Automation	Canada
Radiators	Menk	USA
	Trantech	USA
Fans	Krenz & Company Inc.	USA
	Ziehl Abbeg Inc.	Germany
Gaskets	Argus Industrial Supply	Canada
	Hi-Tech Seals	Canada
Air Cell	Pronal	France
	SEI Industries	Canada

(Rev. July 2017) Department of the Treasury Internal Revenue Service

Certificate of Status of Beneficial Owner for
United States Tax Withholding and Reporting (Entities)

For use by entities. Individuals must use Form W-8BEN. Section references are to the Internal Revenue Code.

Go to www.irs.gov/FormW8BENE for instructions and the latest information.

Give this form to the withholding agent or payer. Do not send to the IRS.

OMB No. 1545-1621

Do N	OT use this form for:				Instead use Form
• U.S	entity or U.S. citizen or resident				W-9
• A fo	preign individual			W-8BEN (Ind	ividual) or Form 8233
	oreign individual or entity claiming that income is efess claiming treaty benefits).	fectively connected wit	h the conduct o	of trade or business within the U.S.	W-8EC
• A fo	oreign partnership, a foreign simple trust, or a foreig	an grantor trust (unless	claiming treaty	benefits) (see instructions for except	ions) W-8IM)
• A fo	oreign government, international organization, foreign ernment of a U.S. possession claiming that income (c), 892, 895, or 1443(b) (unless claiming treaty ber	gn central bank of issue is effectively connecte	e, foreign tax-exed U.S. income	empt organization, foreign private foor that is claiming the applicability of	undation, or section(s) 115(2),
• Any	person acting as an intermediary (including a qual	ified intermediary actin	g as a qualified	derivatives dealer)	W-8IMY
Pa	art I Identification of Beneficial Ow	ner			
1	Name of organization that is the beneficial owner	r		2 Country of incorporation or org	anization
PTI T	ransformers LP			CANADA	
3	Name of disregarded entity receiving the payme	nt (if applicable, see ins	structions)		
4	Chapter 3 Status (entity type) (Must check one by Simple trust Grantor trust Central Bank of Issue Tax-exempt of If you entered disregarded entity, partnership, si	Gonganization Priva	ooration polex trust ate foundation rust above, is th	☐ Disregarded entity ☐ Estate ☐ International organization	✓ Partnership ☐ Government
	claim? If "Yes" complete Part III.				Yes No
5	Chapter 4 Status (FATCA status) (See instruction Nonparticipating FFI (including an FFI relater FFI other than a deemed-compliant FFI, pare exempt beneficial owner). Participating FFI. Reporting Model 1 FFI. Reporting Model 2 FFI. Registered deemed-compliant FFI (other that FFI, sponsored FFI, or nonreporting IGA FFI See instructions. Sponsored FFI. Complete Part IV. Certified deemed-compliant nonregistering I Part V. Certified deemed-compliant FFI with only low Complete Part VI. Certified deemed-compliant sponsored, clos vehicle. Complete Part VII. Certified deemed-compliant limited life debt in Complete Part VIII. Certain investment entities that do not maintain Complete Part IX. Owner-documented FFI. Complete Part XI.	d to a Reporting IGA cicipating FFI, or a reporting Model 1 covered in Part XII). ocal bank. Complete w-value accounts. sely held investment vestment entity.	Nonreport Foreign greentral ba Internation Exempt re Entity who Territory fi Excepted Excepted Complete 501(c) org Nonprofit Publicly tracorporation Excepted Active NFI Passive NI Excepted Direct reports Account the	ting IGA FFI. Complete Part XII. overnment, government of a U.S. pounk of issue. Complete Part XIII. and organization. Complete Part XIV. otherment plans. Complete Part XV. obtirement plans. Complete Part XV. obtirement plans. Complete Part XV. on onfinancial institution. Complete Part XV. nonfinancial group entity. Complete nonfinancial start-up company. Componition of the part XX. organization. Complete Part XXI. organization. Complete Part XXII. added NFFE or NFFE affiliate of a public. Complete Part XXIII. territory NFFE. Complete Part XXV. FFE. Complete Part XXV. organization. Complete Part XXV. organization. Complete Part XXVI. inter-affiliate FFI. Complete Part XXV. orting NFFE.	ssession, or foreign s. Complete Part XVI. //II. Part XVIII. aplete Part XIX. ankruptcy. //II. //II. art XXVIII.
6	Permanent residence address (street, apt. or suite r	o., or rural route). Do no	t use a P.O. box	cor in-care-of address (other than a re	egistered address).
101 R	ockman Street				
	City or town, state or province. Include postal co	de where appropriate.		Country	
	ipeg, Manitoba R3T 0L7			CANADA	
7	Mailing address (if different from above)				
	City or town, state or province. Include postal co	de where appropriate.		Country	<u> </u>
8	U.S. taxpayer identification number (TIN), if required	9a GIIN		b Foreign TIN	14 DT0001
10	Reference number(s) (see instructions)	<u> </u>		/ 344223	14 RT0001
Note:	Please complete remainder of the form including s	igning the form in Part	XXX.		
For P	aperwork Reduction Act Notice, see separate in	structions.	Cat. No. 59	9689N Form W-8B	EN-E (Rev. 7-2017)

Form V	V-8BEN-E (Rev. 7-2017)		Page 2
Par	Disregarded Entity or Branch branch of an FFI in a country ot		e only if a disregarded entity with a GIIN or a sidence. See instructions.)
11	Chapter 4 Status (FATCA status) of disregarded	entity or branch receiving payment	
	☐ Branch treated as nonparticipating FFI.	Reporting Model 1 FFI.	U.S. Branch.
	☐ Participating FFI.	Reporting Model 2 FFI.	
12	Address of disregarded entity or branch (street registered address).	, apt. or suite no., or rural route). Do n	not use a P.O. box or in-care-of address (other than a
	City or town, state or province. Include postal co	ode where appropriate.	
	Country		
13	GIIN (if any)		
Par	t III Claim of Tax Treaty Benefits (i	f applicable). (For chapter 3 pur	rposes only.)
14	I certify that (check all that apply):		
а	▼ The beneficial owner is a resident of CAN.	ADA	within the meaning of the income tax
	treaty between the United States and that co	ountry.	
b		with limitation on benefits. The following	ty benefits are claimed, and, if applicable, meets the ng are types of limitation on benefits provisions that may
	Government	✓ Company that meets the owners	ship and base erosion test
	☐ Tax exempt pension trust or pension fund	Company that meets the derivati	ive benefits test
	Other tax exempt organization	Company with an item of income	e that meets active trade or business test
	☐ Publicly traded corporation	Favorable discretionary determing	nation by the U.S. competent authority received
	☐ Subsidiary of a publicly traded corporation	Other (specify Article and paragr	aph):
С	☐ The beneficial owner is claiming treaty bene or business of a foreign corporation and me		from a foreign corporation or interest from a U.S. trade ctions).
15	Special rates and conditions (if applicable—se The beneficial owner is claiming the provisions of	•	-
	of the treaty identified on line 14a above to claim	n a% rate of withho	olding on (specify type of income):
	Explain the additional conditions in the Article th	e beneficial owner meets to be eligible	for the rate of withholding:
Pari	Name of sponsoring entity:		
17	Check whichever box applies.		
17	I certify that the entity identified in Part I:		
	Is an investment entity;		
		the Alexandrian territorial forms of the second control of the sec	
	Is not a QI, WP (except to the extent permitted Is a great with the extent identified above (the		
	Has agreed with the entity identified above (that the agree of the state of th	it is not a nonparticipating FFI) to act a	s the sponsoring entity for this entity.
	☐ I certify that the entity identified in Part I:	057()	
	Is a controlled foreign corporation as defined in	1 Section 957(a);	
	Is not a QI, WP, or WT; Is not a QI, WP, or WT, o	Managed Managed Action 1995 at 1895 at 1895	
			t agrees to act as the sponsoring entity for this entity; and
	account holders and payees of the entity and	to access all account and customer i	above) that enables the sponsoring entity to identify all information maintained by the entity including, but not alance, and all payments made to account holders or

Form **W-8BEN-E** (Rev. 7-2017)

-	_	-E (Rev. 7-2017)
Part		Certified Deemed-Compliant Nonregistering Local Bank
18		certify that the FFI identified in Part I:
		erates and is licensed solely as a bank or credit union (or similar cooperative credit organization operated without profit) in its country of poration or organization;
	bank	gages primarily in the business of receiving deposits from and making loans to, with respect to a bank, retail customers unrelated to such and, with respect to a credit union or similar cooperative credit organization, members, provided that no member has a greater than 5% est in such credit union or cooperative credit organization;
	• Do	es not solicit account holders outside its country of organization;
		is no fixed place of business outside such country (for this purpose, a fixed place of business does not include a location that is not introduce a reference in the reference is not include a location that is not introduce and from which the FFI performs solely administrative support functions);
	than Do	s no more than \$175 million in assets on its balance sheet and, if it is a member of an expanded affiliated group, the group has no more \$500 million in total assets on its consolidated or combined balance sheets; and es not have any member of its expanded affiliated group that is a foreign financial institution, other than a foreign financial institution that corporated or organized in the same country as the FFI identified in Part I and that meets the requirements set forth in this part.
Part		Certified Deemed-Compliant FFI with Only Low-Value Accounts
19	=	certify that the FFI identified in Part I:
10	• Is princ	not engaged primarily in the business of investing, reinvesting, or trading in securities, partnership interests, commodities, notional cipal contracts, insurance or annuity contracts, or any interest (including a futures or forward contract or option) in such security, pership interest, commodity, notional principal contract, insurance contract or annuity contract;
		financial account maintained by the FFI or any member of its expanded affiliated group, if any, has a balance or value in excess of 200 (as determined after applying applicable account aggregation rules); and
		ither the FFI nor the entire expanded affiliated group, if any, of the FFI, have more than \$50 million in assets on its consolidated or bined balance sheet as of the end of its most recent accounting year.
Part '	VII	Certified Deemed-Compliant Sponsored, Closely Held Investment Vehicle
20	Nam	e of sponsoring entity:
21		certify that the entity identified in Part I:
		an FFI solely because it is an investment entity described in Regulations section 1.1471-5(e)(4);
		not a QI, WP, or WT;
		I have all of its due diligence, withholding, and reporting responsibilities (determined as if the FFI were a participating FFI) fulfilled by the soring entity identified on line 20; and
	parti	or fewer individuals own all of the debt and equity interests in the entity (disregarding debt interests owned by U.S. financial institutions, cipating FFIs, registered deemed-compliant FFIs, and certified deemed-compliant FFIs and equity interests owned by an entity if that vowns 100% of the equity interests in the FFI and is itself a sponsored FFI).
Part \	/111	Certified Deemed-Compliant Limited Life Debt Investment Entity
22		certify that the entity identified in Part I:
		s in existence as of January 17, 2013;
	• Is c	ued all classes of its debt or equity interests to investors on or before January 17, 2013, pursuant to a trust indenture or similar agreement; and certified deemed-compliant because it satisfies the requirements to be treated as a limited life debt investment entity (such as the ctions with respect to its assets and other requirements under Regulations section 1.1471-5(f)(2)(iv)).
Part	IX	Certain Investment Entities that Do Not Maintain Financial Accounts
23		certify that the entity identified in Part I:
		financial institution solely because it is an investment entity described in Regulations section 1.1471-5(e)(4)(i)(A), and
Part		es not maintain financial accounts. Owner-Documented FFI
		atus only applies if the U.S. financial institution, participating FFI, or reporting Model 1 FFI to which this form is given has agreed that it will
		as an owner-documented FFI (see instructions for eligibility requirements). In addition, the FFI must make the certifications below.
24a		All owner-documented FFIs check here) I certify that the FFI identified in Part I:
		es not act as an intermediary;
	• Do	es not accept deposits in the ordinary course of a banking or similar business;
	• Do	es not hold, as a substantial portion of its business, financial assets for the account of others;
		ot an insurance company (or the holding company of an insurance company) that issues or is obligated to make payments with respect to ancial account;
	busir	not owned by or in an expanded affiliated group with an entity that accepts deposits in the ordinary course of a banking or similar less, holds, as a substantial portion of its business, financial assets for the account of others, or is an insurance company (or the holding pany of an insurance company) that issues or is obligated to make payments with respect to a financial account;
	• Do	es not maintain a financial account for any nonparticipating FFI; and

• Does not have any specified U.S. persons that own an equity interest or debt interest (other than a debt interest that is not a financial account or that has a balance or value not exceeding \$50,000) in the FFI other than those identified on the FFI owner reporting statement.

Form W-8BEN-E (Rev. 7-2017)

		E (Rev. 7-2017)
Par		Owner-Documented FFI (continued)
		4b or 24c, whichever applies.
b		certify that the FFI identified in Part I:
	• Has	provided, or will provide, an FFI owner reporting statement that contains:
	(i)	The name, address, TIN (if any), chapter 4 status, and type of documentation provided (if required) of every individual and specified U.S. person that owns a direct or indirect equity interest in the owner-documented FFI (looking through all entities other than specified U.S. persons);
	(ii	The name, address, TIN (if any), and chapter 4 status of every individual and specified U.S. person that owns a debt interest in the owner-documented FFI (including any indirect debt interest, which includes debt interests in any entity that directly or indirectly owns the payee or any direct or indirect equity interest in a debt holder of the payee) that constitutes a financial account in excess of \$50,000 (disregarding all such debt interests owned by participating FFIs, registered deemed-compliant FFIs, certified deemed-compliant FFIs, excepted NFFEs, exempt beneficial owners, or U.S. persons other than specified U.S. persons); and
	(ii	i) Any additional information the withholding agent requests in order to fulfill its obligations with respect to the entity.
		s provided, or will provide, valid documentation meeting the requirements of Regulations section 1.1471-3(d)(6)(iii) for each person fied in the FFI owner reporting statement.
c	fr re ar	certify that the FFI identified in Part I has provided, or will provide, an auditor's letter, signed within 4 years of the date of payment, or an independent accounting firm or legal representative with a location in the United States stating that the firm or representative has viewed the FFI's documentation with respect to all of its owners and debt holders identified in Regulations section 1.1471-3(d)(6)(iv)(A)(2), and that the FFI meets all the requirements to be an owner-documented FFI. The FFI identified in Part I has also provided, or will provide, an FFI owner reporting statement of its owners that are specified U.S. persons and Form(s) W-9, with applicable waivers.
Check	box 2	4d if applicable (optional, see instructions).
d		certify that the entity identified on line 1 is a trust that does not have any contingent beneficiaries or designated classes with unidentified eneficiaries.
Parl	ΧI	Restricted Distributor
25a	☐ (<i>l</i>	All restricted distributors check here) I certify that the entity identified in Part I:
	• Ope	rates as a distributor with respect to debt or equity interests of the restricted fund with respect to which this form is furnished;
	• Prov	vides investment services to at least 30 customers unrelated to each other and less than half of its customers are related to each other;
	• Is re	equired to perform AML due diligence procedures under the anti-money laundering laws of its country of organization (which is an FATF-liant jurisdiction);
		erates solely in its country of incorporation or organization, has no fixed place of business outside of that country, and has the same ry of incorporation or organization as all members of its affiliated group, if any;
	• Doe	s not solicit customers outside its country of incorporation or organization;
		no more than \$175 million in total assets under management and no more than \$7 million in gross revenue on its income statement for ost recent accounting year;
		ot a member of an expanded affiliated group that has more than \$500 million in total assets under management or more than \$20 million ss revenue for its most recent accounting year on a combined or consolidated income statement; and
		s not distribute any debt or securities of the restricted fund to specified U.S. persons, passive NFFEs with one or more substantial U.S. rs, or nonparticipating FFIs.
Check	box 2	5b or 25c, whichever applies.
		that with respect to all sales of debt or equity interests in the restricted fund with respect to which this form is furnished that are made er 31, 2011, the entity identified in Part I:
b	re	as been bound by a distribution agreement that contained a general prohibition on the sale of debt or securities to U.S. entities and U.S. sident individuals and is currently bound by a distribution agreement that contains a prohibition of the sale of debt or securities to any pecified U.S. person, passive NFFE with one or more substantial U.S. owners, or nonparticipating FFI.
С	pa re id fu	currently bound by a distribution agreement that contains a prohibition on the sale of debt or securities to any specified U.S. person, assive NFFE with one or more substantial U.S. owners, or nonparticipating FFI and, for all sales made prior to the time that such a striction was included in its distribution agreement, has reviewed all accounts related to such sales in accordance with the procedures entified in Regulations section 1.1471-4(c) applicable to preexisting accounts and has redeemed or retired any, or caused the restricted nd to transfer the securities to a distributor that is a participating FFI or reporting Model 1 FFI securities which were sold to specified U.S. ersons, passive NFFEs with one or more substantial U.S. owners, or nonparticipating FFIs.
		Form W-8BEN-E (Rev. 7-2017)

Form V	/-8BEN-E	E (Rev. 7-2017)	Page 5
Par	XII	Nonreporting IGA FFI	
26	□ I ce	ertify that the entity identified in Part I:	
	• Mee	ts the requirements to be considered a nonreporting financial institution pursuant to an applicable IGA between the United . The applicable IGA is a Model 1 IGA or a Model	
	is trea	ted as aunder the provisions of the applicable IGA or Treasur	ry regulations
	(if app	olicable, see instructions);	
	-	u are a trustee documented trust or a sponsored entity, provide the name of the trustee or sponsor	·
	The tru	ustee is: U.S. Foreign	
Part	XIII	Foreign Government, Government of a U.S. Possession, or Foreign Central Bank of Issue	
27		ertify that the entity identified in Part I is the beneficial owner of the payment, and is not engaged in commercial financial ac	tivition of a
2.	typ	be engaged in by an insurance company, custodial institution, or depository institution with respect to the payments, ligations for which this form is submitted (except as permitted in Regulations section 1.1471-6(h)(2)).	
Part	XIV	International Organization	
Check	box 28	a or 28b, whichever applies.	M
28a	□ I ce	ertify that the entity identified in Part I is an international organization described in section 7701(a)(18).	
b	□ I ce	ertify that the entity identified in Part I:	
		emprised primarily of foreign governments;	
	Is real Act or	cognized as an intergovernmental or supranational organization under a foreign law similar to the International Organization that has in effect a headquarters agreement with a foreign government;	ns Immunities
		benefit of the entity's income does not inure to any private person; and	
	custoc	e beneficial owner of the payment and is not engaged in commercial financial activities of a type engaged in by an insurar dial institution, or depository institution with respect to the payments, accounts, or obligations for which this form is submitt ted in Regulations section 1.1471-6(h)(2)).	nce company, led (except as
Part	XV	Exempt Retirement Plans	NAME OF THE OWNER
Check	box 29	a, b, c, d, e, or f, whichever applies.	
29a	□lc∈	ertify that the entity identified in Part I:	
	• Is es	tablished in a country with which the United States has an income tax treaty in force (see Part III if claiming treaty benefits);	
	• Is op	erated principally to administer or provide pension or retirement benefits; and	
	• Is en as a re	titled to treaty benefits on income that the fund derives from U.S. sources (or would be entitled to benefits if it derived any sident of the other country which satisfies any applicable limitation on benefits requirement.	such income)
b	□lc∈	ertify that the entity identified in Part I:	
		rganized for the provision of retirement, disability, or death benefits (or any combination thereof) to beneficiaries the yees of one or more employers in consideration for services rendered;	at are former
	• No si	ingle beneficiary has a right to more than 5% of the FFI's assets;	
		ubject to government regulation and provides annual information reporting about its beneficiaries to the relevant tax auth y in which the fund is established or operated; and	horities in the
	(i)	Is generally exempt from tax on investment income under the laws of the country in which it is established or operates du as a retirement or pension plan;	e to its status
	(ii)	Receives at least 50% of its total contributions from sponsoring employers (disregarding transfers of assets from other plain this part, retirement and pension accounts described in an applicable Model 1 or Model 2 IGA, other retirement funds an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(b)(2)(i)(A));	
	(iii)	Either does not permit or penalizes distributions or withdrawals made before the occurrence of specified events related disability, or death (except rollover distributions to accounts described in Regulations section 1.1471-5(b)(2)(i)(A) (referring and pension accounts), to retirement and pension accounts described in an applicable Model 1 or Model 2 IGA, or to oth funds described in this part or in an applicable Model 1 or Model 2 IGA); or	to retirement
С		Limits contributions by employees to the fund by reference to earned income of the employee or may not exceed \$50,000 prtify that the entity identified in Part I:	annually.
		rganized for the provision of retirement, disability, or death benefits (or any combination thereof) to beneficiaries that yees of one or more employers in consideration for services rendered;	at are former
	• Has f	fewer than 50 participants;	
	• Is spe	onsored by one or more employers each of which is not an investment entity or passive NFFE;	
	pensio	loyee and employer contributions to the fund (disregarding transfers of assets from other plans described in this part, ren accounts described in an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(by reference to earned income and compensation of the employee, respectively;	
	• Partic	cipants that are not residents of the country in which the fund is established or operated are not entitled to more than 20% of the fund's a	essets: and
	• Is su	bject to government regulation and provides annual information reporting about its beneficiaries to the relevant tax author which the fund is established or operates.	•

Form W	V-8BEN-E (Rev. 7-2017)	age 6
Part		<u> </u>
d	☐ I certify that the entity identified in Part I is formed pursuant to a pension plan that would meet the requirements of section 401(a), other	
	than the requirement that the plan be funded by a trust created or organized in the United States.	
е	I certify that the entity identified in Part I is established exclusively to earn income for the benefit of one or more retirement funds	
	described in this part or in an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(b)(2)(i)(A) (referring retirement and pension accounts), or retirement and pension accounts described in an applicable Model 1 or Model 2 IGA.	ng to
f	I certify that the entity identified in Part I:	
	• Is established and sponsored by a foreign government, international organization, central bank of issue, or government of a U.S. posses (each as defined in Regulations section 1.1471-6) or an exempt beneficial owner described in an applicable Model 1 or Model 2 IGA to proper retirement, disability, or death benefits to beneficiaries or participants that are current or former employees of the sponsor (or per designated by such employees); or	ovide
	• Is established and sponsored by a foreign government, international organization, central bank of issue, or government of a U.S. posses (each as defined in Regulations section 1.1471-6) or an exempt beneficial owner described in an applicable Model 1 or Model 2 IGA to pro retirement, disability, or death benefits to beneficiaries or participants that are not current or former employees of such sponsor, but a consideration of personal services performed for the sponsor.	ovide
Part	XVI Entity Wholly Owned by Exempt Beneficial Owners	
30	☐ I certify that the entity identified in Part I:	
	• Is an FFI solely because it is an investment entity;	
	• Each direct holder of an equity interest in the investment entity is an exempt beneficial owner described in Regulations section 1.1471-6 an applicable Model 1 or Model 2 IGA;	or in
	• Each direct holder of a debt interest in the investment entity is either a depository institution (with respect to a loan made to such entity) of exempt beneficial owner described in Regulations section 1.1471-6 or an applicable Model 1 or Model 2 IGA.	or an
	 Has provided an owner reporting statement that contains the name, address, TIN (if any), chapter 4 status, and a description of the typ documentation provided to the withholding agent for every person that owns a debt interest constituting a financial account or direct en interest in the entity; and 	
	• Has provided documentation establishing that every owner of the entity is an entity described in Regulations section 1.1471-6(b), (c), (d) (f) and/or (g) without regard to whether such owners are beneficial owners.	, (e),
Part :		
31	I certify that the entity identified in Part I is a financial institution (other than an investment entity) that is incorporated or organized under	er:
Dort \	the laws of a possession of the United States.	
Part 32	XVIII Excepted Nonfinancial Group Entity I certify that the entity identified in Part I:	
32	 Is a holding company, treasury center, or captive finance company and substantially all of the entity's activities are functions described Regulations section 1.1471-5(e)(5)(i)(C) through (E); 	∌d in
	• is a member of a nonfinancial group described in Regulations section 1.1471-5(e)(5)(i)(B);	
	• Is not a depository or custodial institution (other than for members of the entity's expanded affiliated group); and	
	• Does not function (or hold itself out) as an investment fund, such as a private equity fund, venture capital fund, leveraged buyout fund, or investment vehicle with an investment strategy to acquire or fund companies and then hold interests in those companies as capital asset investment purposes.	
Part	XIX Excepted Nonfinancial Start-Up Company	
33	☐ I certify that the entity identified in Part I: • Was formed on (or, in the case of a new line of business, the date of board resolution approving the new line of business)	
	(date must be less than 24 months prior to date of payment);	
	• Is not yet operating a business and has no prior operating history or is investing capital in assets with the intent to operate a new line business other than that of a financial institution or passive NFFE;	e of
	• Is investing capital into assets with the intent to operate a business other than that of a financial institution; and	
	 Does not function (or hold itself out) as an investment fund, such as a private equity fund, venture capital fund, leveraged buyout fund, or investment vehicle whose purpose is to acquire or fund companies and then hold interests in those companies as capital assets for investment purpo 	
Part		
34	L I certify that the entity identified in Part I:	
	• Filed a plan of liquidation, filed a plan of reorganization, or filed for bankruptcy on	_;
	 During the past 5 years has not been engaged in business as a financial institution or acted as a passive NFFE; Is either liquidating or emerging from a reorganization or bankruptcy with the intent to continue or recommence operations as a nonfinar entity; and 	ncial
	 Has, or will provide, documentary evidence such as a bankruptcy filing or other public documentation that supports its claim if it remain bankruptcy or liquidation for more than 3 years 	ıs in

Form **W-8BEN-E** (Rev. 7-2017)

Form V	V-8BEN-E (Rev. 7-2017)
Part	XXI 501(c) Organization
35	☐ I certify that the entity identified in Part I is a 501(c) organization that:
	• Has been issued a determination letter from the IRS that is currently in effect concluding that the payee is a section 501(c) organization that is dated; or
	• Has provided a copy of an opinion from U.S. counsel certifying that the payee is a section 501(c) organization (without regard to whether the payee is a foreign private foundation).
Part	XXII Nonprofit Organization
36	☐ I certify that the entity identified in Part I is a nonprofit organization that meets the following requirements.
	• The entity is established and maintained in its country of residence exclusively for religious, charitable, scientific, artistic, cultural or educational purposes;
	The entity is exempt from income tax in its country of residence;
	• The entity has no shareholders or members who have a proprietary or beneficial interest in its income or assets;
	• Neither the applicable laws of the entity's country of residence nor the entity's formation documents permit any income or assets of the entity to be distributed to, or applied for the benefit of, a private person or noncharitable entity other than pursuant to the conduct of the entity's charitable activities or as payment of reasonable compensation for services rendered or payment representing the fair market value of property which the entity has purchased; and
	• The applicable laws of the entity's country of residence or the entity's formation documents require that, upon the entity's liquidation or dissolution, all of its assets be distributed to an entity that is a foreign government, an integral part of a foreign government, a controlled entity of a foreign government, or another organization that is described in this part or escheats to the government of the entity's country of residence or any political subdivision thereof.
Part 2	XXIII Publicly Traded NFFE or NFFE Affiliate of a Publicly Traded Corporation
Check	box 37a or 37b, whichever applies.
37a	☐ I certify that:
	The entity identified in Part I is a foreign corporation that is not a financial institution; and
	The stock of such corporation is regularly traded on one or more established securities markets, including
b	☐ I certify that:
	The entity identified in Part I is a foreign corporation that is not a financial institution;
	• The entity identified in Part I is a member of the same expanded affiliated group as an entity the stock of which is regularly traded on an established securities market;
	 The name of the entity, the stock of which is regularly traded on an established securities market, is The name of the securities market on which the stock is regularly traded is
Part 2	
38	☐ I certify that:
	The entity identified in Part I is an entity that is organized in a possession of the United States;
	• The entity identified in Part I:
	(i) Does not accept deposits in the ordinary course of a banking or similar business;
	(ii) Does not hold, as a substantial portion of its business, financial assets for the account of others; or
	(iii) Is not an insurance company (or the holding company of an insurance company) that issues or is obligated to make payments with respect to a financial account; and
_	• All of the owners of the entity identified in Part I are bona fide residents of the possession in which the NFFE is organized or incorporated.
Part 2	
39	✓ I certify that:
	• The entity identified in Part I is a foreign entity that is not a financial institution;
	• Less than 50% of such entity's gross income for the preceding calendar year is passive income; and
	• Less than 50% of the assets held by such entity are assets that produce or are held for the production of passive income (calculated as a weighted average of the percentage of passive assets measured quarterly) (see instructions for the definition of passive income).
Part)	
40a	I certify that the entity identified in Part I is a foreign entity that is not a financial institution (other than an investment entity organized in a possession of the United States) and is not certifying its status as a publicly traded NFFE (or affiliate), excepted territory NFFE, active NFFE, direct reporting NFFE, or sponsored direct reporting NFFE.
Check	box 40b or 40c, whichever applies.
b	I further certify that the entity identified in Part I has no substantial U.S. owners (or, if applicable, no controlling U.S. persons); or
С	I further certify that the entity identified in Part I has provided the name, address, and TIN of each substantial U.S. owner (or, if applicable, controlling U.S. person) of the NFFE in Part XXIX.

Form **W-8BEN-E** (Rev. 7-2017)

F W 9DFN F (D 7 0047)								
Form W-8BEN-E (Rev. 7-2017) Part XXVII Excepted Inter-After	filiata FEI		Page &					
41								
Is a member of an expanded affile								
•	 Does not maintain financial accounts (other than accounts maintained for members of its expanded affiliated group); 							
	• Does not make withholdable payments to any person other than to members of its expanded affiliated group;							
	ner than depository accounts in the cou agent other than a member of its expan	ntry in which the entity is operating to pay for ded affiliated group; and	r expenses) with or receive					
 Has not agreed to report under institution, including a member of i 	Regulations section 1.1471-4(d)(2)(ii)(C) or its expanded affiliated group.	otherwise act as an agent for chapter 4 purpos	es on behalf of any financia					
Part XXVIII Sponsored Direct	XXVIII Sponsored Direct Reporting NFFE (see instructions for when this is permitted)							
42 Name of sponsoring entity:								
		hat is sponsored by the entity identified on lin	ne 42.					
Part XXIX Substantial U.S. O	wners of Passive NFFE							
As required by Part XXVI, provide the na substantial U.S. owner. If providing the freporting its controlling U.S. persons under the control of the control o	orm to an FFI treated as a reporting Mo	al U.S. owner of the NFFE. Please see the ins del 1 FFI or reporting Model 2 FFI, an NFFE n	structions for a definition of nay also use this part for					
Name		Address	TIN					
			-					
9								
W								
Part XXX Certification								
· · · · · · · · · · · · · · · · · · ·	e examined the information on this form and t	o the best of my knowledge and belief it is true, com	rect, and complete. I further					
certify under penalties of perjury that:								
	is form is the beneficial owner of all the inco g this form for purposes of section 6050W;	me to which this form relates, is using this form to	certify its status for chapter 4					
The entity identified on line 1 of this	· ·							
		onduct of a trade or business in the United States, (b) effectively connected but is					
	ax treaty, or (c) the partner's share of a partne							
	schanges, the beneficial owner is an exempt f	• •	and the state of t					
owner or any withholding agent that can disbu	se or make payments of the income of which	·	on line 1 is the beneticial					
I agree that I will submit a new form within:	any ceruncation on this form bec	omes incorrect.						
Sign Here	. / /	Stuart Gibson	10-11-2018					
- M/	al authorized to sign for beneficial owner	Print Name	Date (MM-DD-YYYY)					

 $\ensuremath{ \ \, }$ I certify that I have the capacity to sign for the entity identified on line 1 of this form.

Form **W-8BEN-E** (Rev. 7-2017)



Aon Reed Stenhouse Inc.

Certificate of Insurance

2103 - Ilth Avenue, 8th Floor Regina, Saskatchewan S4P 3Z8

To: TO WHOM IT MAY CONCERN

Re: Evidence of Insurance

Insurance as described herein has been arranged on behalf of the insured named herein under the following policy(ies) and as more fully described by the terms, conditions, exclusions and provisions contained in the said policy(ies) and any endorsements attached thereto.

Insured: PTI Transformers LP

101 Rockman Street Winnipeg, MB R3T 0L7

Coverage:	Insurer(s)	Policy No.	Policy Eff. Date	Policy Exp. Date	Limit(s) of Liability
Commercial General Liability	Northbridge General Insurance Corporation	CBC 1939268	June 15, 2020	May 15, 2021	\$2,000,000 each Occurrence - Bodily Injury and Property Damage, subject to aggregate where applicable Non-Owned Automobile Liability
Umbrella Liability	Northbridge General Insurance Corporation	CBC 1939268	June 15, 2020	May 15, 2021	\$3,000,000 each Occurrence in excess of underlying policies above on a follow form basis.
Cargo	Underwriters at Lloyd's through Aon Group Limited	MACAR1700374	May 15, 2020	May 15, 2021	\$5,000,000 by any one inland conveyance \$50,000 Deductible any one loss
Manufacturer's E&O	Northbridge General Insurance Corporation	CBC 1939268	June 15, 2020	May 15, 2021	\$2,000,000 each Claim \$2,000,000 Aggregate \$10,000 Retention

THIS IS A SUMMARY OF COVERAGES ONLY; ACTUAL POLICY WORDING, CONDITIONS AND LIMITATIONS APPLY

This Certificate constitutes a statement of the facts as of the date of issuance and are so represented and warranted only to the Certificate Holder; other persons relying on this Certificate do so at their own risk.

Aon Reed Stenhouse Inc.

Dated June 15, 2020, at Regina, Saskatchewan

Terrilee Lamer, CAIB (306) 569-6726



Certificate of Registration

This certifies that the Quality Management System of

PTI Transformers LP

101 Rockman Street Winnipeg, Manitoba, R3T 0L7, Canada

has been assessed by NSF-ISR and found to be in conformance to the following standard(s):

ISO 9001:2015

Scope of Registration:

Design, manufacture, delivery and servicing of medium and large power transformers.



Certificate Number: 6G721-IS10
Certificate Issue Date: 22-APR-2021
Registration Date: 09-MAY-2021
Expiration Date *: 08-MAY-2024

Jennifer Morecraft, Senior Managing Director

NSF International Strategic Registrations

789 North Dixboro Road, Ann Arbor, Michigan 48105 | (888) NSF-9000 | www.nsf-isr.org



Certificate of Registration

This certifies that the Environmental Management System of

PTI Transformers LP

101 Rockman Street Winnipeg, Manitoba, R3T 0L7, Canada

has been assessed by NSF-ISR and found to be in conformance to the following standard(s):

ISO 14001:2015

Scope of Registration:

Design, manufacture, delivery and servicing of medium and large power transformers.



Certificate Number: 6G721-EM7
Certificate Issue Date: 22-APR-2021
Registration Date: 09-MAY-2021
Expiration Date *: 08-MAY-2024

Jennifer Morecraft, Senior Managing Director

NSF International Strategic Registrations

789 North Dixboro Road, Ann Arbor, Michigan 48105 | (888) NSF-9000 | www.nsf-isr.org

PTI TRANSFORMERS LP

PAINT SPECIFICATION FOR METAL PARTS



Quality Management System ENGINEERING SPECIFICATION

Document Number: ES-70-002

1. Scope:

This specification outlines the paint requirement for metal parts, it shall be suitable for spray application.

2. General:

All paints shall be ready-mixed at the factory to comply with the specification formula for the type of paint ordered shall be free from dirt, water and other foreign matter; and shall dry within the specified period to a good film without running, streaking or sagging.

Two specific requirements for painting metal parts:

Internal metal parts – consist of metal parts and surfaces in contact with transformer oil such as clamp structure, base bar, end bracket assembly, top cross brace, locating beam, and inside surface of the tank, cover, conservator, turret, LTC box, cooler pipe, header, hand-hole cover.

External metal parts – consist of metal parts and surfaces not in contact with transformer oil such as lightning arrestor (L/A) support assembly, A-Frame assembly, conservator support assembly, control box and outside surface of the tank, cover, conservator, turret, LTC box, cooler pipe, header, hand hole cover.

3. Specific Instruction:

3.1. Surface Preparation

- 3.1.1. Surfaces shall be free of all visible oil, grease, dirt, mill scale, rust, coating, oxides, corrosion, and other foreign matter.
- 3.1.2. All sharp edges must be broken with appropriate grinding tool, 3 passes with 100 grit.
- 3.1.3. Commercial blast to SSPC-SP 6
- 3.1.4. Blast profile of 2 mil +/- 0.5 mil
- 3.1.5. A maximum of 24 hours exposure time is allowed before painting application.
- 3.1.6. Use Loctite two part epoxy to seal welded clamping plates from egress of trapped Shot-blast material.

3.2. Masking surfaces before painting

- 3.2.1. For internal metal parts such as clamp, base bar, top cross brace, end brackets, and locating beam, the surfaces to be masked with tape will be specified by standard drawings.
- 3.2.2. For the tank and cover, the surfaces to be masked with tape will be specified by standard drawings.
- 3.2.3. For the conservator, the surfaces to be masked with tape will be specified by standard drawings.

3.3. Spot/Stripe Priming

3.3.1. Apply a stripe primer coat first on welds, edges, and hard to reach surface areas before full prime coat application. Spray or brush application are acceptable.

Revision No.: 5	Revision Date: February 1, 2019	Page 1 of 2
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PTI TRANSFORMERS LP
Quality Management System
ENGINEERING SPECIFICATION

PAINT SPECIFICATION FOR METAL PARTS



Document Number: ES-70-002

3.4. Internal Metal Parts Paint Requirements

- 3.4.1. White epoxy primer/Top coat Superior-Sequoia 263-166 A&B
- 3.4.2. Dry film thickness (DFT) is 3.0mils-5.0 mils for 1,500 hrs

3.5. External Metal Parts Paint Requirements

- 3.5.1. First full prime coat High solids red oxide epoxy primer; Superior Sequoia 263-147 A&B, DFT at least 4.0 mils for 1,500 hrs.
- 3.5.2. Top coat Urethane Topcoat 4:1; Superior Sequoia 273-719, DFT at least 2.0 mils above profile.
- 3.5.3. Color for top coat as required by specific order.

4. Approval List:

Responsibility Center: Engineering		Prepared by: R. Jorundson Original signed	Date:	Issued by ISO Coord: John Manansala Original signed	Date:
Accepted for Quality: Arlyne Jutiz	Date:	Accepted for Engineering: Jim Nielsen	Date:	Intentionally left blank	
Original signed		Original signed			

5. Revision History:

Revision	Revised by	Date	Description of Revision
0	A. Minh Vuong	August 26, 2013	New work instruction
1	Armand Siapno	July 29, 2013	Added item 3.1.6 under surface preparation
2	ST	January 2016	New company name, logo
3	B.Seerapathy	March 21, 2018	Minor Format Updation. Logo changed from Pauwels to PTI
4	R. Jorundson	June 18, 2018	Update 2.2.4 & 2.2.5 to current product in use.
5	Arlyne Jutiz	February 1, 2019	Modify "Approval List" section Change company name and logo

Revision No.: 5	Revision Date: February 1, 2019	Page 2 of 2
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Micro L/MIN (Procedure B)		+12
Power Factor, 25C, %	D924	0.006
Power Factor, 100C, %	D924	0.06
Visual Examination	D1524	B & C
PCB Content, PPM	D4059	n/detect.

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QUALITROL, QTMS

Transformer Monitoring System



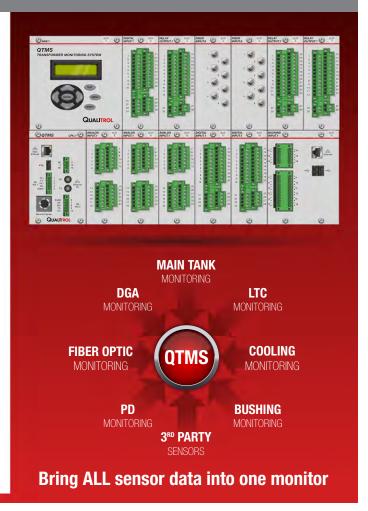
Providing the missing piece in your Condition Based Monitoring platform

- Modular design; full customization of monitoring parameters to meet specification
- Reduce installation and reconfiguration time; web based software and plug and play modules
- Field upgradeable; hot swappable modules with wiring on the front panel of the unit
- Multiple chassis sizes and mounting options to suit any application

Product Summary

Description As industry trends continue to require higher transformer utilization with reduced operations and maintenance budgets, it is becoming vital to reliably monitor asset health in real time. Real time monitoring of important parameters such as traditional transformer main tank / LTC / cooling systems, partial discharge, dissolved gas analysis and bushing health may indicate early warning signs of potential risks to the electrical network and associated assets. Early detection of transformer abnormally may allow for a shorter issue resolution cycle and avoidance of unnecessary maintenance or even potential unplanned outages.

Application Transformer monitor for condition based, continuous online monitoring of asset health (CBM). Interfaces with a variety of Qualitrol and third party smart sensors, as well as traditional gauges to accurately measure transformer parameters vital to asset management. The QTMS utilizes a modular approach allowing for full system customization to specification. Modules are hot swappable and field upgradeable. Web based software is specifically designed for ease of unit commissioning and setup.





Asset Health

Reliably monitor asset health in real time

- Individual modules allow for complete QTMS customization
- Certain parameters such as dissolved gas analysis (DGA), partial discharge (PD), and 3rd party sensors can be brought in via communication ports



LOAD TAP CHANGER

- Contact wear status
- Current position and range
- Tap run time and count
- Motor current power
- Motor actuation counter
- · Alarm set points
- LTC temperature and differentials



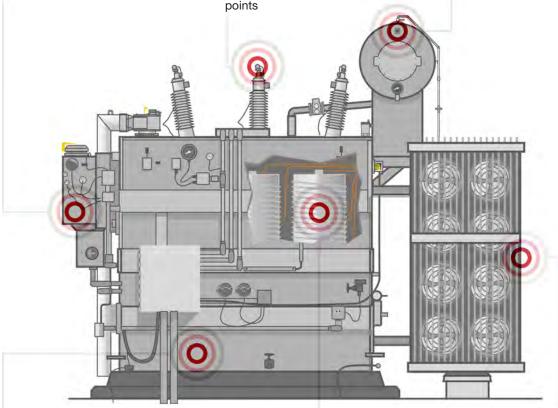
BUSHINGS

- · Capacitance current value
- · Capacitance alarm set points
- Tan delta value
- Tan delta alarm set points
- · Temperature value
- Temperature alarm set point
- Leakage current value and set points



CONSERVATOR TANK

- Liquid level
- Buccholz relay
- Bladder rupture alarm





MAIN TANK

- Temperature
- Pressure relief
- Rapid pressure rise relay
- Liquid level
- Smart breather
- 3rd party smart sensors



WINDINGS

- Fiber optic winding temperature
- Simulated winding temperature
- Partial Discharge (PD)
- Dissolved Gas Analysis (DGA)
- Geomagnetically Induced Current (GIC)



COOLING MONITORING

- Motor current power and motor
- Alarm set points
- Cooling bank temperature and differentials
- Flow indicator status
- Efficiency status





Modular Platform

Field upgradeable, hot swappable modules

- All modules are isolated from one another. Each is engineered to be hot swappable and fully field upgradeable to aid in configuration changes
- The web based interface software will automatically recognize hardware changes to reduce installation and commissioning time



DISPLAY

- Optional push button display screen
- Large backlit LCD screen
- Integrated overlay buttons



DIGITAL INPUTS

- Completely configurable per specification
- 14 digital inputs per module
- Up to 196 digital inputs per system



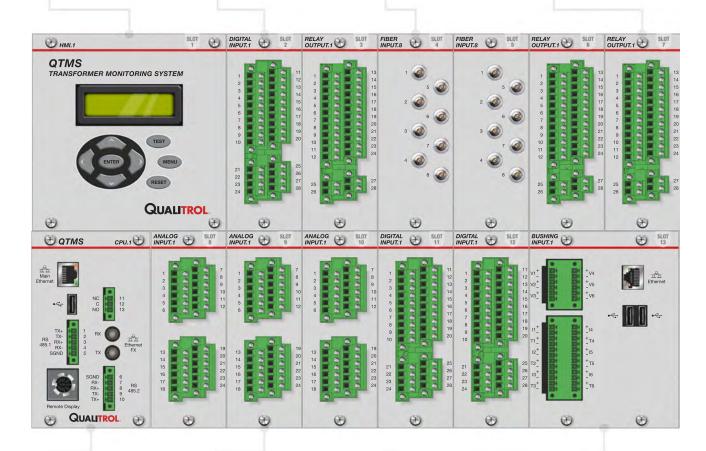
FIBER OPTICS

- Accurate direct winding temperature
- Accurately characterize asset aging
- Available in 4, 6, or 8 inputs



RELAYS

- Cooling system activation, alarms and customized signals
- 8 relays per module
- Up to 112 relays available per system





CPU

- USB and serial ports; IEC 61850, DNP 3.0, Modbus, IEC 60870 protocols
- Web based interface
- Universal power supply



ANALOG INPUTS

- Flexible configuration of multiple analog types
- 8 analog inputs per module
- Up to 112 analog inputs per system



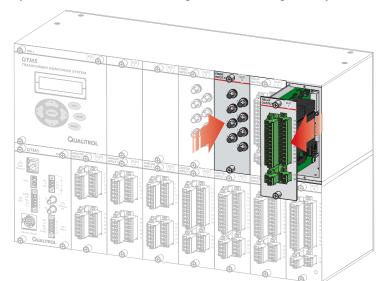
BUSHING MONITOR

- Real time monitoring of up to 6 bushing taps per module
- Detect changes in Tan Delta
- Detect changes in capacitance

Module Customization

Simple Installation of Additional Monitoring Technologies

- Qualitrol offers a wide variety of modules to populate the various sizes of QTMS chassis
- Any module configuration may be chosen, and module changes are auto-recognized by the QTMS software



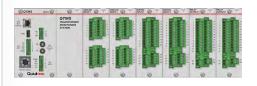
Modules easily slide in and out of the chassis to create custom configurations

Chassis Customization



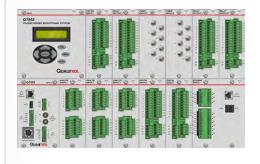
STX Chassis

- Optional remote display
- Houses up to 4 modules
- Generally used for traditional transformer monitoring or specialty applications



MTX Chassis

- · Optional remote or internal display
- Houses up to 7 modules
- Generally used for traditional monitoring plus some advanced functionality such as Fiber Optics, DGA or Bushing Monitoring



LTX Chassis

- · Optional remote or internal display
- Houses up to 14 modules
- Generally used for advanced CBM transformer monitoring:
 - Traditional monitoring / LTC / Cooling
 - Bushing Monitoring
 - Dissolved Gas Analysis (DGA)
 - Partial Discharge (PD)
 - Fiber Optic Temperature

Mounting options

 A variety of mounting options are available with the QTMS. Including panel mount, rack mount, and various enclosures



Product Advantages

Customization and Configuration

- Modular approach customizable to any CBM platform; traditional monitoring plus DGA, PD, Bushing Monitoring
- Choose a unique combination of monitoring parameters and health algorithms for various sized transformers
- All modules are backward compatible and can be added or subtracted at any time with simple configuration
- Fully field configurable by the end user with web based software that can be accessed on or offline
- No need for constant manufacturer technician support on installation or configuration changes!

Installation and Reliability

 Universal power supply with wiring on the front of the unit for easy assess

- Multiple mounting options and chassis sizes allow for a tailored application for any CBM platform
- Hot swappable modules and simple configuration of 3rd party sensors through multiple communication options
- Made in USA, with robust materials that are fully tested according to current electrical and security protocols

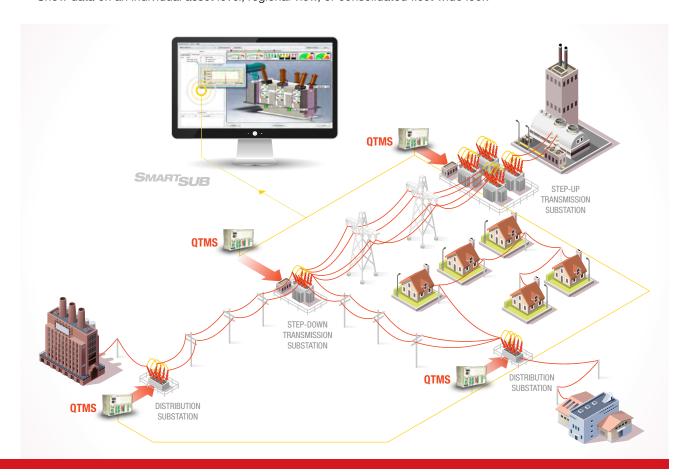
Software and Algorithms

- Web based software can be accessed locally or remotely depending on the application
- Configuration of sensors, alarms, and modules are simple and intuitive with just a few mouse clicks
- Incorporation of state of the art health assessment algorithms
- Algorithms are based on IEC and IEEE standards that are well accepted in the industry

Transformer Fleet Monitoring

SmartSUB Enterprise Software

- Bring data from multiple QTMS units into a centralized location with Qualitrol's SmartSUB enterprise software
- · Show data on an individual asset level, regional view, or consolidated fleet wide look



QUALITROL QTMS - Transformer Monitoring System

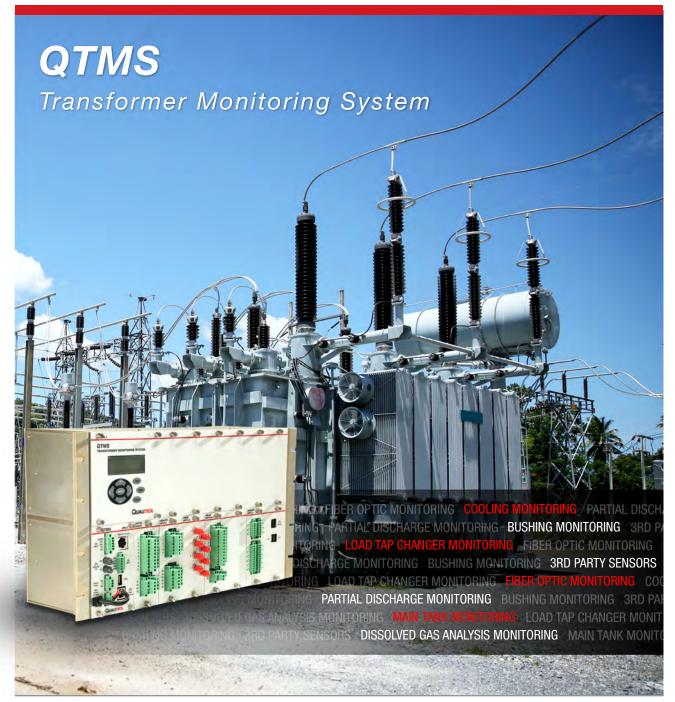
TECHNICAL	SPECIFICATIONS	
Power supply	Universal	120 - 240 V AC, $\pm 20\%$; 50/60 Hz; 125 - 250 V DC, $\pm 15\%$; <50 V Fuse: 5.0 A / 250 V
Processor module	CPU	TX6-DL dual-core processor 10/100 Ethernet TX, RJ45 port USB-A port RS-485, 4-wire communications port, Display port for optional remote display
Comms module (integral to the CPU)	Option 1	Ethernet FX, ST connector RS-485, 4-wire communications port System status relay
User interface	Platform	Web based
Data comms	Protocols - serial	DNP 3.0 (Level3), Modbus IEC 60870-104-5
	Protocols - Ethernet	IEC 61850, IEC 60870-104-5 DNP 3.0 (Level 3), Modbus
Memory	Data logging	100 variables; store rates 1 minute to 24 hours 32 parameters at 15 second capture rate for 90 days without overwriting, with 4 GB memory space
Display	Local (optional) Remote for swing panel (optional)	Backlit LCD, 2 x 16 characters
	Controls (switches)	8 pushbutton (Navigation, Test and Reset)
Analog input	Inputs	Measures up to 8 parameters
module	Accuracy	±0.5% full scale input range
	Temperature	100 ohm platinum (Pt100) RTD; simulated winding Liquid / ambient temperature range: -40 - 120°C Winding temperature range: -40 - 200°C
	Current	Clamp-on CT, 0 - 5A, - 10A, - 20A, -100A and others available
	DC current loops	0 - 1 and 4 - 20 mA DC
	DC voltage	0 - 100 mV DC and 0 - 10 VDC
	AC voltage	0 - 140 VAC and 0 - 320 VAC; 50/60 Hz
	Potentiometer	1500 - 15,000 ohms
	Switch contact (dry)	Open / closed
	Switch contact (powered)	>80 V or >130 V open, jumper selectable; optically isolated
	Taps	0 - 1 mA DC or 4 - 20 mA DC
	Tap position	0 - 1, 0 - 5, 0 - 10, -5 - +5, -10 - +10, 0 - 125 VDC or non-powered; resistor bridges of 40 - 2500 ohm (1% acc, 100 ppm) or 0 - 1 mA DC or 4 - 20 mA DC
Digital input	Inputs	Measures up to 14 optically isolated inputs
module	Maximum voltage	250 V DC
	Threshold voltage	>75 V DC





TECHNICAL	SPECIFICATIONS	
Direct winding temperature	Inputs	Up to 8 fiber optic input probes
Fiber optic	Accuracy	±1°C
Output relay	Output relays	8 Form C relays; 10 A @ 120 / 240 V AC; 10 A @ 30 V DC
module	Accuracy	2 Loops; 0 - 1 mA (max resistive load 10,000 ohms) / 4 - 20mA (max resistance 500 ohms); other options available
Bushing input module	Input signals from bushing sensors	Up to 6 bushings (minimum 3 signals required) 6 x bushing current (equivalent voltage) signal 6 x temperature signal 6 x reference voltage signal Ethernet port to connect 1 OCU for partial discharge monitoring
	Measuring principal	Calculates the phase difference between leakage current and reference voltage
	General	Tan Delta / Power Factor: Accuracy better than ±0.0001 (0.1mrad in phase shift) Capacitance: Accuracy better than 0.2% Leakage current: Accuracy better than ±0.1% Reference Voltage: Accuracy better than ±0.1% Temperature compensated Tan Delta / Power Factor Integration into SmartSUB: Accuracy better than ±0.1%
Immunity	Dielectric strength	IEC 60255-5:2000; IEEE C37.90-2005
	Impulse	IEC 60255-5:2000
	Electrostatic discharge	C37.90.3 (IEEE); IEC 61000-4-2:2009
	Radiated RF	61000-6-5; IEC 61000-4-3:2010
	Fast transient, burst	IEC 60255-22-4:2008; IEC 61000-4-4:2011
	Surge	61000-6-5; IEC 61000-4-5:2005
	Capability damped oscillatory	61000-4-12
	Conducted RF	IEC 61000-4-6:2006; IEC 61000-4-6:2006
	Conducted emissions	EN 55011 Class A
	Radiated emissions	EN 55011 Class A
	Tolerance to power frequency	61000-4-8; IEC 60529:2001
Environmental	Enclosure IP rating	IP20. (Higher IP enclosure ratings available on request)
	Sinusoidal vibration	IEC 60255-21-1:1988, Class 1
	Shock and bump	IEC 60255-21-2:1988, Class 1
	Cold	IEC 60068-2-1:2007
	Damp heat, cyclic	IEC 60068-2-56
	Dry heat	IEC 60068-2-2:2007
	Operating temperature	-40°C to +72°C
	Operating temperature (Bushing module)	-20°C to +72°C
	Storage temperature	-60°C to +85°C
	Operating humidity	5 - 95% non-condensing





QUALITROL® Field Services

QUALITROL® provides on-site commissioning/start-up and comprehensive maintenance contracts to all customers worldwide. To further improve reliability, an extended warranty is available on selected products commissioned by QUALITROL®.

About QUALITROL®

Established in 1945, with continual improvement at the core of our business, QUALITROL® provides smart utility asset condition monitoring across the globe. We are the largest and most trusted global leader for partial discharge monitoring, asset protection equipment and information products across generation, transmission and distribution. At QUALITROL® we are redefining condition monitoring technology for Electric utilities assets.

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SERVERON® TM8™

On-line DGA Monitor



Protect Transformer Assets

- Avoid transformer failures
- Enable condition based maintenance
- Extend transformer life
- Defer capital expenditures
- The most comprehensive DGA assessment available

Product Summary

Description: Our industry leading on-line DGA monitors and TM VIEW™ software are monitoring generation, transmission and distribution power transformers worldwide. DGA (dissolved gas analysis) of transformer oil is the single best indicator of a transformer's overall condition. The Model TM8 offers the most comprehensive DGA assessment available. This assessment is provided through accurate and repeatable on-line measurements of the 8 critical fault gases plus nitrogen, moisture and other key parameters.

Application: Throughout your system are transformers that are vital to the reliability of your grid – GSU's, large transmission transformers, and critical substation transformers. Serveron DGA transformer monitors provide the important and timely information needed to maintain the reliability and safety of transformer fleets.



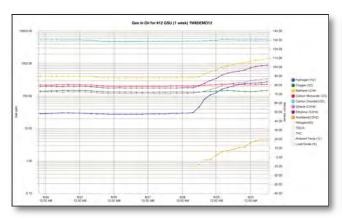


Comprehensive Data Requires Powerful Tools

- Serveron TM View[™] software and services offer simple yet powerful analytical tools for transformer monitor management, data visualization and analysis including our exclusive TOAN diagnostic tool.
- Seamlessly move from single user software to enterprise capability for large deployments of monitors in your fleet with our SmartSUB solution.
- SmartSUB includes the DGA analysis features of TM View and adds the ability of combining data from additional transformer condition based monitoring devices (tank pressure, cooling bank current, winding current & temperature, bushing monitor, partial discharge and others).

Gas-in-Oil Trend Chart

 On-line correlation of 8 fault gases for the most comprehensive DGA condition assessment available.



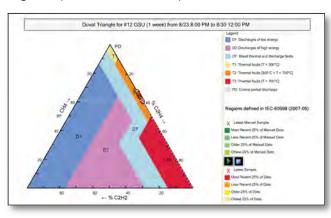
Transformer Oil Analysis and Notification (TOAN)

 Neural network based DGA diagnostic technology that provides the most accurate DGA diagnostic results over all other diagnostic tools.



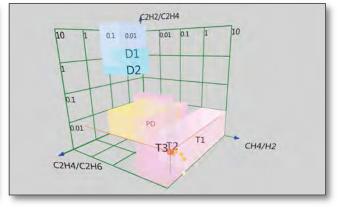
Duval Triangles

 Multiple Duval Triangles provide diagnostic outcomes for various combinations of the fault gases (IEC 60599-2007-05).



Rogers and Basic Gas Ratios

 Offer three dimensional views of diagnostic outcomes for various combinations of the fault gases (IEEE C57.104-2008 & IEC 60599-2007-05).





SERVERON® TM8™ on-line DGA monitor

Accuracy and Reliability

- The Model TM8 measures all fault gases using a single Gas
 Chromatography (GC) measurement system. Gas Chromatography
 is the accepted measurement science for DGA and is the only DGA
 measurement technology specified in IEEE, ASTM, CIGRE and IEC
 standards.
- Serveron has delivered more GC based DGA monitors with industry leading accuracy than any other vendor.
- On-board automated calibration verification ensures performance to specification throughout the entire operating life of the monitor.
- Performs accurate DGA analysis on mineral and ester-based insulating fluids.

Low Total Cost of Ownership (TCO)

- Field-proven reliability combined with low lifetime maintenance requirements offers superior value.
- Economical maintenance costs compared to other multi-gas monitors.
- All scheduled maintenance can be performed on-site for minimal disruption to monitor up-time.

Avoid transformer failures

- Continuous trending of key fault gases gives early and immediate notification of incipient faults that can lead to transformer failure.
- Many transformer failures can be prevented through the correlation of DGA data to real events.
- All 8 fault gases plus nitrogen, oil temperature, ambient temperature, transformer load and moisture-in-oil are correlated by the Model TM8.

Enable condition based maintenance

- Only comprehensive on-line monitoring can provide the information that enables continuous transformer condition assessment.
- Data from the Model TM8 supports all IEEE and IEC diagnostic tools for rapid warning and diagnosis of developing faults.

Extend transformer life and defer capital expenditures

 Comprehensive analysis of key fault gases, moisture and other key parameters enables intelligent management of transformers, extending their useful life and deferring capital expenditures.



TECHNICAL SPEC	CIFICATIONS			
DGA Method:		Accuracy ¹	Repeatability ²	Range ³
Laboratory Grade Gas Hydrogen (H ₂)		±5% or ±3 ppm	<2%	3-3,000 ppm
Chromatography	Oxygen (O ₂)	±5% or +30/-0 ppm	<1%	30-25,000 ppm
	Methane (CH ₄)	±5% or ±5 ppm	<1%	5-7,000 ppm
	Carbon Monoxide (CO)	±5% or ±5 ppm	<2%	5-10,000 ppm
	Carbon Dioxide (CO ₂)	±5% or ±5 ppm	<1%	5-30,000 ppm
	Ethylene (C ₂ H ₄)	±5% or ±3 ppm	<1%	3-5,000 ppm
	Ethane (C ₂ H ₆)	±5% or ±5 ppm	<1%	5-5,000 ppm
	Acetylene (C ₂ H ₂)	±5% or ±1 ppm	<2%	1-3,000 ppm
	Nitrogen (N ₂)	±10% or ±5,000 ppm	<20%	5,000-100,000 ppm
		All specifications are independ 1) Percent or PPM - whicheve 2) At the calibration level 3) Gas-in-Oil		gas pressure levels.
Additional		Accuracy ⁴		Range
Monitoring Options	Moisture-in-Oil		±2%	0-100% RS
Options		< 10% of reading for oil te	mperature > 30°C	0 to 80 ⁵ ppm
		< 18% of reading for oil te	mperature < 30°C	0 to 80 ⁵ ppm
	Oil Temperature		0.1°C (typically)	-40°C to +180°C
		4) Includes non-linearity and r 5) Upper range limited to satu	•	
Total Dissolved Gases	True Total Combustible Gas	True Total Dissolved Combustible Gas (TDCG) output is available reporting 100% of detected level in PPM for H_2 , C_2H_2 , C_2H_4 , C_2 , C_3H_6		
	Total Hydrocarbons	Total Hydrocarbons (THC) level in PPM for CH_4 , C_2H_2		orting 100% of detected
Gas Analysis Parameters	Oil Sampling Rate	Oil sampling is continuous from 2 hours to 12 hours (E acceleration when rate of c	Default: 4 hours). Autor	matic schedule
	Data Management	All data is date and time st in memory	amped and up to two	years of data is stored
	Automated Calibration Verification	System performs periodic a Institute of Standards and		
Alarms	Two individually programmable relays	50 VDC or 240 VAC @ 3 A operate as normally open of		max.); relay contacts
	Supported Alarms	Gas Caution & Alarm for Le and/or Service Event	evel (ppm), Rate-of-Ch	ange (ppm/day), Power
External Sensor Inputs	Analog Inputs	Three (3) analog 4 to 20 m/s included. Optional sensors in-oil with temperature prof	include transformer lo	



TECHNICAL SPEC	CIFICATIONS				
Communications	Standard Interfaces	RS-232, RS-485, Etherne	t Fiber (100Base-FX)		
	Optional Interfaces	Cellular modem, Ethernet	Copper (10/100Base-TX), Wireless Radio,		
		V.92 Internal POTS moder	m		
	Supported Protocols	TCP/IP, DNP3, Modbus RTU, ASCII, OPC and IEC 61850			
Environmental	Operating Temperature	e -50°C to +55°C			
Specifications	Cold Start Temperature	-20°C			
	Operating Humidity	5% to 95% RH, non-cond	densing		
	Oil Inlet Pressure	0 to 45 psi (0 to 3 bar)			
	Storage Temperature	-40°C to +75°C			
	Storage Humidity	5% to 95% RH, non-cond	densing		
Physical	Product Dimensions	HxWxD: 22.0 in x 20 in x	11.2 in (55.9 cm x 50.8 cm x 28.4 cm)		
Specifications	Packaging Dimensions	26.4 in x 26.4 in x 15.9 in	(67 cm x 67 cm x 40.3 cm)		
	Product Weight	65 lb (29.5 kg)			
	Shipping Weight	70 lb (31.8 kg) (monitor pa	ackage only)		
	Enclosure Rating	NEMA 4X, IP66			
Input Power	Voltage	115 VAC or 230 VAC ±15%			
Requirements	Frequency	50/60 Hz			
	Current	6 A maximum @ 115 V; 3 A maximum @ 230 V			
Radiated and		Specification	Test Method		
Conducted Emissions	Radiated Emissions	EN 61326-1: 2006	CISPR 11:2009 A1:2010 Class A		
Emissions	Conducted Emissions	EN 61326-1: 2006	CISPR 11:2009 A1:2010 Class A		
	Current Harmonics	EN 61000-3-2:2006	EN 61000-3-2:2006 A1:2009 Class A		
	Voltage Fluctuations	EN 61000-3-3:2008	EN 61000-3-3:2008 Class A		
Radiated and		Specification	Test Method		
Conducted Immunity	ESD	EN 61326-1:2006	IEC61000-4-2:2009		
	Radiated Immunity	EN 61326-1:2006	IEC61000-4-3:2006 A2:2010		
	EFT	EN 61326-1:2006	IEC61000-4-4:2004 A1:2010		
	Surge	EN 61326-1:2006	IEC61000-4-5:2006		
	Conducted RF Immunity	EN 61326-1:2006	IEC61000-4-6:2009		
	Magnetic Field Immunity	EN 61326-1:2006	IEC61000-4-8:2010		
	Voltage Dips & Interrupts	EN 61326-1:2006	IEC61000-4-11:2004		
Safety		Specification			
		IEC 61010-1	IEC 61010-2-81		
		UL 61010-1 (2nd Edition)	CSA-C22.2 No. 61010-1-04		

www.serveron.com



On-line DGA Analysis Across Your Power Transformer Fleet

Leading utilities around the globe deploy the Serveron line of transformer monitors to provide superior asset protection for their transformer fleets across generation, transmission and distribution. With a low total cost of ownership, reliable field-proven performance and global customer service, Serveron transformer monitors set the standard for on-line DGA monitoring. Our transformer monitors can be deployed stand-alone or as part of the Qualitrol SmartSUB condition based monitoring system for transformers and other critical substation assets.



About Serveron®

Serveron transformer condition assessment and management tools are critical to utilities in improving grid reliability while optimizing the management and economics of their asset base. We are a leader in on-line DGA monitoring of power transformers with solutions across the entire power transformer fleet. Serveron is a QUALITROL Company.

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Kelman DGA 900

Next generation on-line multi-gas DGA

Dissolved Gas Analysis (DGA) and moisture measurement of insulating fluids are recognized as the most important tests for condition assessment of transformers. In previous years, multi-gas DGA was traditionally confined to a laboratory environment, with infrequent off-line manual sampling forming part of time-based maintenance strategies. However, as the global average age of transformers continued to rise, the possibility of rapid ageing, unplanned outages and even catastrophic failure between off-line tests also increased, leading many asset owners to adopt on-line DGA monitoring strategies to increase network reliability.

In the early 2000's, GE's Kelman™ range of analysers brought consumable-free on-line multi-gas DGA to the market and GE is now proud to introduce the Kelman DGA 900, our next generation multi-gas on-line DGA and moisture analyser. At its heart lies an evolved implementation of GE's proven Photo-Acoustic Spectroscopy (PAS) measurement technology, providing laboratory challenging levels of precision and repeatability with no consumables and no need for frequent re-calibration. Benefiting from over 40 years of global DGA vendor experience, the Kelman DGA 900 encapsulates learnings and improvements derived from its predecessors to bring improved performance, innovative new features, enhanced user experience and increased robustness.

Key Benefits

- · Provides remote alert and multi-gas diagnostic of deteriorating transformer condition
- Expedites operational decisions without needing to go to site for manual oil sampling
- Issues can be detected in their infancy, avoiding unexpected failures and facilitating planned outages
- Anchors condition based maintenance and asset replacement strategies on hard data
- No need for consumables or frequent recalibration to operate at optimum performance
- New "Rapid Mode" provides near real-time insight on fast developing faults
- Enhanced computing power and scalable I/Os for a flexible transformer monitoring solution
- Compatible with mineral insulating oils and newer ester based fluids (natural and synthetic)

Applications

The Kelman DGA 900 is an invaluable foundational tool for implementing Asset Performance Management (APM) across electrical generation, transmission and industry, enabling a condition based asset replacement strategy and delivering improvements in system reliability and availability.

A DS-AgileTM and Grid APM ready device, the DGA 900's wide range of communication methods and protocols enables connection to those platforms and integration with GE's PerceptionTM transformer fleet management software as well as other software, historian and SCADA systems.

Proven Technology

- 4th generation of GE's PAS technology delivering improved accuracy with lower detection limits
- From the only vendor with 15 years PAS experience and installed base of >13,000 units
- No carrier or calibration gas consumables
- Laboratory challenging field measurement of nine gases plus moisture
- Complete DGA analysis up to once per hour and new "Rapid Mode" for critical gases in ~30 min

Reliable and Available

- First Kelman device designed by GE leveraging our quality and continuous improvement ethos
- Enhanced reliability and easier field servicing
- 5-year warranty as standard †
- Factory calibration benchmarked against industry standard laboratory assessment

Intuitive and Flexible

- Integrated 7" colour LCD screen for simplified local user interaction and visualisation of data
- Lightweight innovative two-enclosure design enables adjacent or separated installation
- Can connect to AC or sub-station DC power

Scalable and Connected

- Expandable analogue/digital I/Os
- Future proof computing platform ready for feature enhancements
- Designed for cyber security, with a range of comms options and protocols



Technical Specifications

MEASUREMENTS

Technology

FEATURES

Analogue Inputs

Digital Output

1 x CT input standard

4 x sunlight visible LED arrays

Embedded secure webserver (https)

1 x standard service alarm relay

1 x standard watchdog relay

nalogue I/O Card (5 slots available)

Display

Automated head-space ags extraction.

Photo-acoustic spectroscopy (PAS) gas measurement

Thin film capacitive moisture sensor.

Immersed fiber optic oxygen sensor

Configurable from once per hour to once every 4 weeks Faster sampling automatically triggered upon alert level

"Rapid Mode" provides a rapid indication of the evolution of the gasses indicated below in $\sim\!30$ minutes.

Range					
	LDL	UDL	Accuracy*	Repeatability	Available in Rapid Mode
Hydrogen (H₂)	5	5,000 ppm	± LDL or ±5%	< 3%	•
Carb. Monox. (CO)	1	50,000 ppm	± LDL or ±3%	< 2%	•
Methane (CH ₄)	2	50,000 ppm	± LDL or ±3%	< 2%	
Acetylene (C ₂ H ₂)	0.5	50,000 ppm	± LDL or ±3%	< 2%	•
Ethylene (C₂H₄)	1	50,000 ppm	± LDL or ±3%	< 2%	
Carb. Diox. (CO₂)	20	50,000 ppm	± LDL or ±3%	< 3%	•
Ethane (C ₂ H ₆)	1	50,000 ppm	± LDL or ±3%	< 2%	
Oxygen (O ₂)	100	50,000 ppm	± LDL or ±5%	< 2%	•
Nitrogen (N ₂) **	10,000	100,000 ppm	± LDL or ±15%		
Moisture (H ₂ O)	0	100% RS (in ppm)	± 3% ppm	< 3%	•
*whichever is areater. Acc	uracy auoted is th	e accuracy of the detector	rs durina calibration. Gas	s-in-oil measurement	mav be affected by oil type

and condition. Repeatability as measured from final production test data.

** N2 value is calculated and available on free-breathing transformers only.

Integrated backlit 7" inch color resistive touch screen (800 \times 480)

 $5\,x$ optional analogue inputs slots (Add up to 5 additional load CT's or PT100 inputs or 4–20mA sensor cards)

6 x standard customer programmable dry contact relays (type C, SPDT), NO/NC, 10A@ 250Vac resistive load, 10A@ 30Vdc resistive

† Terms and conditions apply

Time Response (typical): 1 measurement cycle ; >95%: C2H2, CO, C2H6, C2H4, CH4, CO2 ; >90%: H2

Digital Communications / Protocols

1 x Modbus® over RS485 / TCP/IP as standard

1 x Standard 1Gb Ethernet (RJ45)

Option: DNP3.0 over RS485 or TCP/IP

Option: IEC 61850 Edition 2

Option: ST/SC Multi-mode fiber converters

Option: GSM/GPRS/UMTS/HSPA+ modem

Option: Wi-Fi (802.11b/g/n)

Alarms

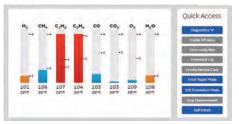
C7

Multiple Alarm setting/scenarios, all assignable to relays or SMS Gas: absolute gas level, Rate of Change (ROC), moisture level, Total Dissolved Combustible Gas (TDCG) and 7 \times user defined gas ratios alarms

Analog inputs: absolute Level, and Rate of Change (ROC)

Digital inputs: status transition

X1 X1 X1 X1 X1 X2 X2 X2 X2 X2



DGA 900 gas levels displayed on the local LCD screen

ENVIRONMENT Conditions

Operating ambient -40°C to +55°C (-40°F to +131°F)

temperature

Operating ambient 0-95% RH, non-condensing humidity

Oil temperature at $\,$ -20°C to +120°C (-4°F to +248°F) valve*** ***Based on testing carried out using VOLTESSO™ 35 mineral oil,

over a ¼" pipe run of 10 metres or less from oil supply or return valve to monitor connection point and on transformer oil supply valve volumes of 200ml or less. For oil temperatures colder than -20°C GE recommends the use of heat trace cabling on piping

Enclosure

IP56 certified

Standard: Powder coated marine grade aluminium (RAL9002)

Option: Unpainted 316 Stainless Steel

Power Requirements

AC Nominal 100-240 Vac, Range 85-264

Vac. 4A

Nominal 100-250 Vdc. Range 90-300 Vdc DC

Mechanical

	Allulysis Ullit	Hub Ollic
Dimensions	600 x 484 x 330 mm	600 x 380 x 330 mm
	23.6 x 19.1 x 13.0 in	23.6 x 15.0 x 13.0 in
Weight	33.4Kg	18.5Kg
	73.6 lb	40.8 lb

OPTIONS

Mounting stand

Sun canopy

Longer umbilical cable between units Analogue output of gas values

U0 CO CO CO XO X0 X0 X0 X0 DGA 900 - Base Unit PO S0 Kelman DGA 900 The 316SS enclosure is still an option, however it should be noted that the DGA900 standard painted aluminum enclosure provides our highest possible rated ingress and corrosion protection levels at IP56 and C5M. DNP3 over RS485 DNP3 over Ethernet COMM90022 COMM90012 P1 P2 COMM90014 IEC 61850 Edition 2 over Ethernet 87-0036-01 Mounting Stand Pair, 1 stand for Analyzer, 1 stand for HUB 87-0035-01 87-0038-01 316SS Mounting Stand Pair, 1 stand for Analyzer, 1 stand for HUB Mounting Stand Converter (Transfix Stand for DGA900) U0 Standard: 2 Meter Cable U1 U2 CABL01055 10 Meter Cable S1 S2 Sun Canopy Pair, 1x Canopy for Analyzer, 1x Canopy for HUB 87-0031-01 87-0033-01 316SS Sun Canopy Pair, $1 \times$ Canopy for Analyzer, $1 \times$ Canopy for HUB C1 C2 C3 DGA 900 Ethernet switch, 1x 100BaseF - ST Multi-mode Fiber + 4x RJ45 10/100 MB copper COMM90016 COMM90017 COMM90018 DGA 900 Ethernet switch, 1x 100BaseF - SC Multi-mode Fiber + 4x RJ45 10/100 MB copper Ethernet Converter - RJ45 to 10/100Mbps Multimode Fibre LC Connector DGA 900 Ethernet switch, 2x 100BaseF - ST Multi-mode Fiber + 6x RJ45 10/100 MB copper DGA 900 Ethernet switch, 2x 100BaseF - SC Multi-mode Fiber + 6x RJ45 10/100 MB copper DGA 900 Ethernet switch, 2x 100BaseF - SC Multi-mode Fiber + 6x RJ45 10/100 MB copper DGA 900 Ethernet switch, 2x 100BaseF - SC Single-mode Fiber + 6x RJ45 10/100 MB copper C4 C5 COMM90019 COMM90020 COMM90021

> Grid Solutions Lissue Industrial Estate East Unit 1 7 Lissue Walk Lisburn BT28 2LU United Kingdom Tel: +44 (0) 2892 622915

COMM9000 COMM90023

13-0396-01 13-0399-01

GEGridSolutions.com

GSM / GPRS Modem RS485 to 16 channel Analogue Outputs, 4-20mA

Analogue Input Card, 4-20mA Analogue Input Card, for PT100 Temp Sensor

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Grid-GA-L3-DGA 900-1599-2019 09-EN R002





Formal Bid and Award System

Award #14 March 3, 2022

Type of Award Request: CONTRACT AMENDMENT

Request #: 6877

Requestor Name: Hightower, Justin **Requestor Phone:** (904) 665-8357

Project Title: JEA Heavy Duty Vehicle Procurement Acquisition

FY22 Project Numbers: NA
FY23 Project Numbers: TBD
Project Location: JEA
Funds: Capital

Budget Estimate: \$2,054,000.00

Scope of Work:

The purpose of this contract amendment is to modify the original Award amounts from the February 3, 2022 Award Committee. The purpose of the original Invitation to Negotiate (the "ITN") was to solicit pricing for the purchase of eleven (11) heavy duty vehicles for JEA's FY22 and FY23 requirements. This purchase is for planned and budgeted replacement of JEA's Fleet Water (Water Replacement – 1 units) and Electric (Electric Replacement – 8 units) assets along with expansion units for JEA's Fleet Water (Water Expansion - 2 Units) associated with the Fleet Capital Procurement Plan.

JEA IFB/RFP/State/City/GSA#: 1410462846-22
Purchasing Agent: Pearson, Kenny

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Con tact Nam e	Email	Address	Original Award Amount	Change Amount	Total Contract Amount
CUMBERLAND INTERNATIONA L TRUCKS OF FLORIDA, LLC	Mic hael O'Br ien	mobrien@cltte.co m	2110 S Division Avenue, Orlando, FL 32805	\$810,096.17	\$0.00	\$810,096.17
KENWORTH OF JACKSONVILLE	Ed Cost ello	edcostello@kwjax .com	Suemac Road, Jacksonville , FL 32254	\$460,888.00	\$0.00	\$460,888.00
ORLANDO FREIGHTLINER	Eam on Keal y	EKealy@orlandof reightliner.com	2455 S Orange Blossom Trail, Apopka, FL 32703	\$1,001,043.00	\$320,548.00	\$1,321,591.00

Amount of Original Award: \$2,272,027.17

Date of Original Award:02/03/2022Change Order Amount:\$320,548.00

Award Amount for remainder of this FY: \$0.00

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 02/04/2022

End Date (mm/dd/yyyy): Project Completion

JSEB Requirement: N/A - No JSEBs available

Background/Recommendations:

Originally bid and approved by the Awards Committee on 02/03/2022 for \$2,272,027.17. Previous award are attached as backup.

JEA is requesting this contract amendment based on an emergent need to fulfill JEA Water Department FY23 Expansion needs. JEA Water Department is adding additional crews at the Pearl Street Service Center and these, along with other items not included in this award, are essential equipment used to complete daily tasks. This would double the amount of Group Four (4) assets, 5 Ton - 19 Cubic Yard Dump Trucks, with the new amount being purchased at a total quantity of four (4) units.

The basis of award for the original solicitation is to the contract to the highest ranked Respondent for each heavy duty vehicle groupings included in this solicitation, and companies were encouraged to bid multiple groupings for efficiency purposes. After the Best and Final Offers (BAFO) were submitted, Orlando Freightliner, was deemed the lowest cost responsible and responsive Respondents for the heavy duty vehicle groupings that is being requested to increase as part of this award.

Vehicle Grouping	Vehicles	Previous Pricing	Proposed Awardee	Original Award Price	New Award
Group 4	Truck 5 Ton Dump 19 Cubic Yard	\$317,522.00	Orlando Freightliner	\$320,548.00	\$641,096.00

Request approval to award an amendment for increase to the contract with Orlando Freightliner in the amount of \$320,548.00 for the purchase vehicles for JEA's FY22 and FY23 heavy duty fleet capital requirements, for a total not-to-exceed amount of \$2,592,575.17, subject to the availability of lawfully appropriated funds.

Manager:	Hightower, Justin – Manager, Fleet Services
Director:	Brunell, Baley – Director Facilities and Fleet Services
VP:	McElroy, Alan – VP of Supply Chain and Operations Support
APPROVA	LS:

Chairman, Awards Committee Date

Budget Representative Date



Formal Bid and Award System

Award #3 February 3, 2022

Type of Award Request: INVITATION TO NEGOTIATE (ITN)

Request #: 6877

Requestor Name: Hightower, Justin **Requestor Phone:** (904) 665-8357

Project Title: JEA Heavy Duty Vehicle Procurement Acquisition

FY22 Project Numbers: 8007352
FY23 Project Numbers: TBD
Project Location: JEA
Funds: Capital

Budget Estimate: \$2,054,000.00

Scope of Work:

The purpose of this Invitation to Negotiate (the "ITN") was to solicit pricing for the purchase of eleven (11) heavy duty vehicles for JEA's FY22 and FY23 requirements. This purchase is for planned and budgeted replacement of JEA's Fleet Water (Water Replacement – 1 units) and Electric (Electric Replacement – 8 units) assets along with expansion units for JEA's Fleet Water (Water Expansion - 2 Units) associated with the Fleet Capital Procurement Plan.

JEA IFB/RFP/State/City/GSA#:

Purchasing Agent: Pearson, Kenny

Is this a Ratification?:

RECOMMENDED AWARDEE(S):

Name	Contact Name	Email	Address	Amount
CUMBERLAND INTERNATIONAL TRUCKS OF FLORIDA, LLC	Michael O'Brien	mobrien@cltte.com	2110 S Division Avenue, Orlando, FL 32805	\$810,096.17
KENWORTH OF JACKSONVILLE	Ed Costello	edcostello@kwjax.com	1121 Suemac Road, Jacksonville, FL 32254	\$460,888.00
ORLANDO FREIGHTLINER	Eamon Kealy	EKealy@orlandofreightliner.com	2455 S Orange Blossom Trail, Apopka, FL 32703	\$1,001,043.00

Amount for entire term of Contract/PO: \$2,272,027.17 **Award Amount for remainder of this FY:** \$918,016.86

Length of Contract/PO Term: Project Completion

Begin Date (mm/dd/yyyy): 02/04/2022

End Date (mm/dd/yyyy): Project Completion

JSEB Requirement: N/A – No JSEBs available

BIDDERS:

Name	Original Amount	BAFO Amount	Proposed Award Amount
CUMBERLAND INTERNATIONAL TRUCKS OF FLORIDA, LLC	\$1,487,152.32	\$1,487,152.32	\$810,096.17
KENWORTH OF JACKSONVILLE, INC.	\$1,644,636.00	\$1,805,653.00	\$460,888.00
ORLANDO FREIGHTLINTER	\$1,126,547.00	\$1,126,547.00	\$1,001,043.00
NEXTRAN TRUCK CENTERS JACKSONVILLE	\$343,932.00	\$348,932.00*	\$0.00
ALTEC INDUSTRIES, INC.	\$134,920.00	\$134,920.00	\$0.00
RING POWER CORPORATION	\$1,384,697.00	\$1,384,697.00	\$0.00

^{*}Nexan Truck Centers Jacksonville's BAFO was \$5,000 higher than their initial bid as they received Cab and Chassis manufacturer price increases after the first round and before the second round. In lieu of a later change order request, they submitted a price increase of the bid price. This did not impact the bid.

Background/Recommendations:

Advertised 10/20/2021. Eight (8) companies attended the mandatory pre-response meeting on 10/25/2021. At the Response opening on 11/23/2021, JEA received six (6) Responses.

The solicitation was processed as an ITN given the complexity of the work found within the solicitation, as this was a fleet capital solicitation that involved complex technical requirements. The basis of award is to the contract to the highest ranked Respondent for each heavy duty vehicle groupings included in this solicitation, and companies were encouraged to bid multiple groupings for efficiency purposes. On 12/10/2021, negotiations were held with the six (6) shortlisted companies, Cumberland International Trucks, Kenworth of Jacksonville, Inc., Nextran Truck Centers Jacksonville, Orlando Freightliner, Altec Industries Inc., and Ring Power Corporation. After the Best and Final Offers (BAFO) were submitted, Orlando Freightliner, Cumberland International Trucks, and Orlando Freightliner were deemed the lowest cost responsible and responsive Respondents for the heavy duty vehicle groupings included in this solicitation.

Vehicle Grouping	Vehicles	Previous Pricing	Proposed Awardee	Proposed Award
Group 1	Truck 3 Ton Utility 11'	N/A*	Cumberland International Trucks	\$120,818.34
Group 2	Truck 3 Ton Cargo Reel	\$602,345.00	Orlando Freightliner	\$680,495.00
Group 3	Truck 5 Ton Cargo Reel	\$518,328.00	Kenworth of Jacksonville, Inc.,	\$460,888.00
Group 4	Truck 5 Ton Dump 19 Cubic Yard	\$317,522.00	Orlando Freightliner	\$320,548.00
Group 5	Truck 8 Ton / Crane 50 Ton 120 Foot	N/A**	Cumberland International Trucks	\$689,277.83

^{*}The last time purchased was 2009 **We have never purchased over a 38 Ton Crane

When comparing JEA's past pricing to the proposed winning supplier, JEA's new pricing will on average be 1.4%, or \$20,297.15 higher on Groupings 2, 3, and 4 based on current market conditions. This percentage

was determined by taking the last price paid and comparing those prices to the quoted unit prices found within this solicitation. We have excluded groupings 1 due to the item has not been purchased since 2009 along with excluding grouping 5 as it has never been purchased before and the closest item was a considerably different 38 Ton Crane in 2008.

Request approval to award a contract to Orlando Freightliner (\$1,001,043.00), Cumberland International Trucks of Florida, LLC (\$810,096.17), and Kenworth of Jacksonville Inc. (\$460,888.00), for the purchase of eleven (11) vehicles within the vehicles for JEA's FY22 and FY23 heavy duty fleet capital requirements, for a total not-to-exceed amount of \$2,272,027.17, subject to the availability of lawfully appropriated funds.

Manager:	Hightower, Justin – Manager, Fleet Services				
VP:	McElroy, Alan – VP of Supply Chain and Operations Supp				
APPROVA	LS:				
Chairman,	Awards Committee				
Rudget Rei	presentative	Date			