SUBJECT: ROLLS-ROYCE 250-C47B ENGINE TURBINE SECTION INSPECTION AND OVERHAUL

BID #: XF-0468-22 **OPEN DATE:** 10/12/2022

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT: One-Time Purchase

AGENCY: Jacksonville Sheriff's Office

BASIS OF AWARD: All or None, to the lowest responsive, responsible bidder

NUMBER OF BIDS INVITED: 17 **NUMBER RECEIVED:** 2 **OTHER:** 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval to amend award to H.E.R.O.S., Inc. for the purchase of Rolls Royce 250-C47B Engine Turbine Section Inspection and Overhaul for the Jacksonville Sheriff's Office. This increase is due to items that were found after the final inspection was conducted, all labor, parts and rework required to return the unit to airworthy condition. Total award increase not to exceed $59,415.22. Total revised award not to exceed $163,547.22.

Funding for this award to be encumbered by account 00111.561102.534050.000000.00000000.00000.0000000, to be executed by purchase order.

Attachments: Agency Memo, Vendor Quote, Previous Award

Analyst: OLIVE WALLACE-COHEN **RESPECTFULLY SUBMITTED:** DUSTIN FREEMEN, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: JOE COWAN, DIRECTOR OF PATROL & ENFORCEMENT

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING _____ MEMBERS DISAPPROVING _____ DATE: _____

_____ _____ OTHER: _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

Jacksonville Sheriff's Office

T.K. WATERS, SHERIFF

Serve • Protect • Community

To: Dustin Freeman
Chief of Procurement

Thru: Bill Clement, CPA
Chief of Budget

From: Joe Cowan
Director of Patrol & Enforcement

Subject: XF-0468-22 Rolls-Royce 250-C47B Engine Turbine Section Inspection and Overhaul

Date: January 9, 2023

We are requesting an amendment to the award and purchase order (PO651249-23) to H.E.R.O.S., Inc., for bid #XF-0468-22 Rolls-Royce 250-C47B Engine Turbine Section Inspection and Overhaul to increase the awarded amount by $59,415.22 for a new not to exceed amount of $163,547.22. This increase is necessary due to items that were found after the final inspection was conducted and all labor, parts and rework required to return the unit to airworthy condition were noted. Attached is a revised estimate for completion from the supplier. The funding source is 00111-561102.534050.000000.00000000.00000.

Please let me know if you require any additional information. Thank you for your assistance.

H.E.R. .S.

FAA CRS HEFR202K EASA 145.5929

250-C47B Series Engine Assembly - 2023 Repair Cost Estimate

560 North 54th Street, Suite #9 Chandler, AZ 85226

Tel: (480) 536-9207 Cell : (321) 307-0131 E-mail: larry@herosinc.com

W/O# 220-404 S/N: CAE-847638 TT: 6000 TSO: X.XXX.X

Customer:	City of Jacksonville Sheriff	**Attention:**	Ron Battles
Part Number Received:	23063392	**E-Mail:**	ron.battles@jaxsheriff.org
Part Number Out:	23063392	**PO:**	651249-23

Item	Qty	Cond.	Part Number	Description	Parts	Labor	Total
1	1	SV	23065593	**Compressor** - Repair	$129.58	$3,500.00	$3,629.58
2	1	OHC	23063354	**Turbine** - 2000 Hour Inspection-Overhaul	$64,005.28	$56,766.00	$120,771.28
3	1	SV	23063392	**Engine** - Hard Lines, packings, seals, assembly	$4,511.36	$27,410.00	$31,921.36
4	1	OHC	M250-10604	**Fuel Nozzle** - Overhaul	$0.00	$0.00	$2,600.00
5	1	SV	23063392	**Engine** - Functional Test	$125.00	$4,500.00	$4,625.00
				TOTAL ENGINE REPAIR PRICE:	***$68,771.22***	***$92,176.00***	***$163,547.22***

TOTAL REPAIR COST PLUS ANY APPLICABLE SALES TAX:	$163,547.22

NOTICE TO CUSTOMER

INSPECTION, REPAIR AND/OR OVERHAUL IS PERFORMED USING METHODS & PROCEDURES DESCRIBED IN THE ROLLS - ROYCE OVERHAUL / OPERATION & MAINTENANCE MANUAL, OTHER AVAILABLE TECHNICAL PUBLICATIONS, STANDARD SHOP PRACTICES & OTHER FAA APPROVED PROCEDURES. THIS ESTIMATE HAS BEEN PREPARED IN CONSIDERATION OF USING FAA APPROVED PMA PARTS, FAA DER APPROVED, OR PENDING REPAIRS AS WELL AS ORIGINAL EQUIPMENT MANUFACTURER (OEM) PARTS. APPROVAL OF THIS ESTIMATE CONSTITUTES YOUR ACCEPTANCE & AUTHORIZATION FOR USAGE OF THESE PARTS.

THIS QUOTATION IS VALID FOR 20 DAYS ONLY.

PLEASE BE ADVISED THAT IN CASE THIS COST ESTIMATE IS NOT APPROVED, WITHIN 20 DAYS FROM DATE OF THIS QUOTATION, AND NO OTHER SPECIAL ARRANGEMENTS HAVE BEEN MADE TO EXTEND THE 20 DAYS PERIOD, WE WILL, EITHER RETURN THE UNIT IN AS - IS CONDITION AND / OR WE MAY CLOSE THE WORK ORDER FILE AND ISSUE AN INSPECTION FEE OF $15,500.00 TO COVER OUR EXPENSES. IF APPROVED BY YOU, WE MAY STORE THE UNIT FOR ANOTHER 90 DAYS IN OUR FACILITY, UNLESS OTHER ARRANGEMENTS ARE MADE, WE WILL RETURN THE UNIT AFTER 90 DAYS. IN SOME CASES STORAGE FEE MAY APPLY.

H.E.R.O.S. RESERVES THE RIGHT TO ADJUST THE TOTAL OVERHAUL/REPAIR COST SHOWN HERE UP TO 5% TO COVER ANY COSTS ASSOCIATED WITH PRICE INCREASES, PARTS AVAILABILITY AND/OR ANY OTHER UNFORESEEN CONDITIONS. THE FINAL INVOICE WILL REFLECT ANY ADJUSTMENTS AS NECESSARY. PRICE ADJUSTMENTS GREATER THAN 5% WILL BE QUOTED & APPROVED BY THE CUSTOMER PRIOR TO COMPLETING WORK.

Quoted By: Larry Boettger Date: 4-Jan-2023

FAA CRS HEFR202K EASA 145.5929

250-C47B Series Engine Assembly - 2023 Repair Cost Estimate

560 North 54th Street, Suite #9 Chandler, AZ 85226

Tel: (480) 536-9207 Cell : (321) 307-0131 E-mail: larry@herosinc.com

W/O# 220-404 S/N: CAE-847638 TT: 6000 TSO: X.XXX.X

Customer:	**City of Jacksonville Sheriff**	**Attention:**	**Ron Battles**
Part Number Received:	**23063392**	**E-Mail:**	ron.battles@jaxsheriff.org
Part Number Out:	**23063392**	**PO:**	**651249-23**

Approved By: _____ Date: _____

H.E.R. .S.

FAA CRS HEFR202K EASA 145.5929

250-C47B Series Engine Assembly - 2023 Repair Cost Estimate

560 North 54th Street, Suite #9 Chandler, AZ 85226

Tel: (480) 536-9207 Fax: (321) 307-0131 E-mail: larry@herosinc.com

W/O# 220-404 S/N: CAE-847638 TT: 6000 TSO: X.XXX.X

Customer: City of Jacksonville Sheriff **Attention:** Ron Battles

Part Number Received: 23063392 **E-Mail:** [redacted]

Part Number Out: 23063392 **PO:** 651249-23

Item	Qty	Cond	Part Number	Description	List (Each)	Disc.	Total
1	1	NE	6859823	Cover Starter Generator Pad	$20.98	10%	$18.88
2	2	NE	6889096	Split Seal	$328.02	10%	$590.44
3	1	NE	23052955	Gasket	$4.09	10%	$3.68
4	1	NE	23053996	Gasket	$2.65	10%	$2.39
5	6	NE	AS3209-012	Packing	$1.31	10%	$7.07
6	1	NE	AS3209-014	Packing	$0.46	10%	$0.41
7	1	NE	AS3209-016	Packing	$0.47	10%	$0.42
8	1	NE	AS3209-113	Packing	$2.03	10%	$1.83
9	1	NE	AS3209-116	Packing	$1.42	10%	$1.28
10	1	NE	AS3209-126	Packing	$1.11	10%	$1.00
11	1	NE	M250-10894	Check Valve Assy (CEB-6087)	$1,375.00	10%	$1,237.50
12	23	NE	MS9320-10	Washer	$0.71	10%	$14.70
13	4	NE	MS9320-11	Washer	$0.40	10%	$1.44
14	1	NE	MS9550-06	Bolt	$23.10	10%	$20.79
15	1	NE	23001757	Cover, Plastic, FWD PTO Pad	$27.60	10%	$24.84
16	2	NE	23053995	Gasket, PTO Pads	$4.35	10%	$8.70
17	1	NE	23054602	Gasket, HMU, *(Part of 3028-1 Kit)*	$2.24	10%	$2.24
18	1	NE	23056451	FUEL FILTER ELEMENT, LPFF, *Alt 7592240-001*	$599.57	10%	$539.61
19	1	NE	23066684	Tube Assy, Anti-Icing Valve to Front Support; C47B	$2,143.18	10%	$1,928.86
20	4	NE	AS3074-08	Gasket, 37° Flared Tube Fitting; *Ref CEB73-6031*	$11.94	10%	$42.98
21	1	NE	M25988/1-142	Packing, CEFA - Fuel Side	$3.50	10%	$3.15
22	26	NE	MS21043-4	Nut, Compressor Installation; *Part of 3010-1 Kit*	$1.10	10%	$25.74
23	4	NE	MS21043-5	Nut, Turbine Installation, *Part of 3030-1 Kit*	$9.28	10%	$33.41
				Total Parts:			**$4,511.36**

		LABOR CHARGES DESCRIPTION

H.E.R.O.S.

FAA CRS HEFR202K EASA 145.5929

250-C47B Series Engine Assembly - 2023 Repair Cost Estimate

560 North 54th Street, Suite #9 Chandler, AZ 85226

Tel: (480) 536-9207 Fax: (321) 307-0131 E-mail: larry@herosinc.com

W/O# 220-404 S/N: CAE-847638 TT: 6000 TSO: X.XXX.X

Customer:	City of Jacksonville Sheriff	**Attention:**	Ron Battles
Part Number Received:	**23063392**	**E-Mail:**	[illegible]
Part Number Out:	**23063392**	**PO:**	651249-23

Item	Qty	Cond	Part Number	Description	List (Each)	Disc.	Total
1	Labor			Engine Assembly - Disassemble to separate and remove modules, accessories and lines. Clean, visual inspect all air, fuel & oil lines, Exciter Box, Ignitor Lead & Plug. Review log book. CEB Verification and final assemble.			$6,475.00
2	Labor			Combustion Liner - Overhaul			$4,250.00
3	Labor			Gearbox: Remove and Replace internal Oil Check Valve per CEB-6087R2			$185.00
4	Labor			OCC - Overhaul, Rework and reID to M250-10867 per CEB-72-6086/6089			$16,500.00
				Total Labor, Rework & Modifications:			**$27,410.00**
				TOTAL REPAIR COST ESTIMATE, PLUS ANY APPLICABLE SALES TAX:			**$31,921.36**

FAA CRS HEFR202K / EASA 145.5929

RR M250-C47 Compressor Assembly - 2023 Repair Cost Estimate

560 North 54th Street Unit 9, Chandler, AZ 85226 USA

Tel: (480) 536 - 9207 E-mail: larry@herosinc.com

W/O# 220-404 **S/N: CAC-45292** **TT: 4001** **TSO: X.XXX.X**

Customer: City of Jacksonville Sheriff **Attention:** Ron Battles

Part Number Received: 23065593 **E-Mail:** [redacted]

Part Number Out: 23065593 **PO:** 651249-23

Item	Qty	Cond	Part Number	Description	OEM List (ea)	Disc.	Total
1	1	NE	23005274	Ring, Piston Seal, SAG Shaft	$30.85	10%	$27.77
2	6	NE	23004212HT	Shim	$4.06	35%	$15.83
3	1	NE	6800088-10	Cover, Compressor Inlet	$62.86	10%	$56.57
4	1	NE	6800088-17	Cover Compressor Bleed Valve	$14.94	10%	$13.45
5	1	NE	6851501-57HT	Packing	$26.60	40%	$15.96
6	6	NE	MS21043-4	Nut	$1.55	10%	$8.37
						Total Parts:	$129.58

1	Labor	**2000 Hour Inspection (Standard)** - Impeller shaft bore inspection, R&R Coupling	$3,500.00
		Total Labor & Rework:	$3,500.00

OVERHAUL / REPAIR COST PLUS ANY APPLICABLE SALES TAX:	$3,629.58

H.E.R.S.

FAA CRS HEFR202K / EASA 145.5929

RR M250-C47 Series Turbine Assembly - 2023 Overhaul Cost Estimate

560 North 54th Street Unit 9, Chandler, AZ 85226 USA

Tel: (480) 536 -9207 E-mail: larry@herosinc.com

W/O# 220-404 S/N: CAT-44930 TT: 4001 TSO: 0

Customer: City of Jacksonville Sheriff **Attention:** Ron Battles

Part Number Received: 23063354 **E-Mail:** [illegible]

Part Number Out: 23063354 **PO:** 651249-23

Item	Qty	Cond	Part Number	Description	List (Each)	Discount	Total
1	1	NE	3030	Turbine Consumable Kit	$2,552.74	10%	$2,425.10
2	1	NE	3030-1	Turbine Installation Kit	$1,774.62	10%	$1,685.89
3	1	NE	6746974	Nut, Thermocouple Terminal, Chromel	$26.48	10%	$26.48
4	1	NE	6746975	Nut, Thermocouple Terminal, Alumel	$28.10	10%	$28.10
5	1	NE	6840407	Nut, No 8 Bearing, LH.	$87.06	10%	$78.35
6	1	NE	23005743	Insulation Blanket - Horizontal Fireshield	$1,693.26	10%	$1,523.93
7	1	OHC	23032327	No. 5 Bearing Stationary Seal, Exchange	Exchange		$1,550.00
8	1	NE	23033862	GP Rotating Lab Seal (SS 6828390)	$225.61	10%	$203.05
9	1	NE	23035275	No. 8 Bearing Oil Inlet Fitting & Tube	$1,472.22	10%	$1,325.00
10	1	OHC	23037446	N2 Rotor Seal	$1,969.29	40%	$1,181.57
11	1	OHC	23062062	PT Oil Sump Cover, Semi-Finished	Exchange		$2,250.00
12	1	NE	23076529	Splined Adapter	$2,440.94	10%	$2,196.85
13	2	NE	23007202AL	No. 6/7 Roller Bearing	$928.90	15%	$1,579.13
14	1	OHC	23073566	1st Stage Nozzle Shield EXC	$2,750.00		$2,750.00
15	1	NE	23031478AL	Bearing, No 8, Ball	$2,677.00	18%	$2,195.14
16	6	NE	23033399-02HT	Slab Bolt	$93.89	30%	$394.34
17	1	NE	23060164HE	Omega Seal, Metallic	$1,662.81	45%	$914.55
18	1	NE	23090049HE	No. 5 Bearing Retaining Ring	$75.03	40%	$45.02
19	1	NE	23090547HT	19-24 Gasifier Seal	$315.44	35%	$205.04
20	1	NE	6800088-16	Exhaust Cover Plastic	$44.19	10%	$39.77
21	1	NE	6870031AL	Inner Bearing Race	$508.16	15%	$431.94
22	1	NE	E23001801	PT Outer Nut	$926.55	15%	$787.57
23	8	NE	E6844422	Damper Segments	$79.21	15%	$538.63

24	1	NE	H250-10102-1	25-28 Serrated Bal/Piston Seal	$2,884.17	45%	$1,586.29
25	1	NE	M250-10227	1st Stage Wheel (SS 23074361)	$16,775.49	10%	$15,097.94
26	1	NE	M250-10658	2nd Stage Wheel (SS 23074362)	$25,143.12	10%	$22,628.81
27	1	NE	M250-10982	Thrust Plate	$365.00	10%	$328.50
28	1	NE	MS9432-06	T-Bolt	$8.30	10%	$8.30
					Total Parts:		**$64,005.28**

1	Labor	**Overhaul** - Disassemble, clean, overhaul inspect, FPI, MPI, bulletin verification, pre & final machining of seals, N1 & N2 balancing and assembly.	$9,950.00
2	Labor	**GP Support Overhaul** - Plate Bearing Bore, seal & shoulder.	$5,130.00
3	Labor	**PT Support Overhaul** - Restoration of Bearing Bore, Flanges, R&R Seal 19-24, 25-28, Clover Leaf, Final Machining	$7,300.00
4	Labor	**Rear Mount** - Bearing worn out limits	$1,686.00
5	Labor	**Thermocouple** - Sheath wear in limits. Requires Jetcat test	$850.00
6	Labor	**Exhaust Collector Repair** - Weld repair cracks	$1,500.00
7	Labor	**1st Stage Nozzle Overhaul** - Weld repair cracks. Restore Surface "O" and flow	$11,000.00
8	Labor	**No. 2 Nozzle Overhaul** - Weld Repair, Vacuum Braze Repair, Rework Tangs, 1st & 2nd Stage Blade Paths, Seal Bore, Surface 'AJ', Forward Flange & Adjust Flow Area.	$7,200.00
9	Labor	**3rd Stage Nozzle** - Repair & adjust flow area	$1,250.00
10	Labor	**4th Stage Nozzle Repair** - Adjust flow area, NDT FPI	$3,150.00
11	Labor	**PT Inner Shaft** - Overhaul and apply Alseal Coating	$1,750.00
12	Labor	**PT Outer Shaft** - Overhaul and apply Alseal coating	$1,750.00
13	Labor	**Horizontal Firewall (P/N 23066696)** - Overhaul & Comply with CEB 72-6017	$1,750.00
14	Labor	**Vertical Firewall** - Overhaul (Pads extra)	$2,500.00
		Total Labor, Rework & Modifications:	**$56,766.00**

TOTAL OVERHAUL COST, PLUS APPLICABLE SALES TAX:	**$120,771.28**

Angie Dixon

OMBUDSMAN

64930

Jacksonville Sheriff's Office

T.K. WATERS, SHERIFF

Serve • Protect • Community

Intradepartmental Correspondence

TO: Sgt. David B. Anderson, Unit Commander

FROM: Ronald E. Battles, A&P/IA Supervisor #6515

DATE: January 4, 2023

SUBJECT: Engine Overhaul Change Order Request

Helicopter Engine Repair and Overhaul Services (H.E.R.O.E.S.) was issued **Purchase Order # 651249-23** in the amount of **$104,132.00** per bid number **XF-0468-22** for the inspection, repair and overhaul of Rolls-Royce/Allison 250-C47B Gas Turbine Engine used in our Bell 407 helicopter N314JP. As with all engine repairs, inspection, and overhaul work, the engine vendor performs a complete teardown inspection of the engine and issues a final quoted price based on the findings of that inspection, in which a Change Order has to be issued. Attached is a report from Helicopter Engine Repair and Overhaul Services (H.E.R.O.E.S.) of their findings and a final price to complete the engine overhaul. It is requested that **Purchase Order # 651249-23 be increased to $163,547.22** to cover the costs of the Engine Overhaul. **This is an increase of $59,415.22.** Your cooperation is greatly appreciated in this matter.

Respectfully Submitted

Ronald E. Battles, A&P/IA Supervisor

REVIEW & FORWARD TO C.U.C. FOR APPROVAL.

Sgt. 7N8
1.4.23

Lt. 5860

Chief 6280

Dir. 5260

RECEIVED
2023 JAN -6 PM 3:47
OFFICE OF THE SHERIFF
BUDGET MGMT. DIV

P-0004e Rev. 11/2022

Purchase Order 651249-23

Purchase Order	651249-23
Order Date	18-NOV-2022
Change Order	0
Change Order Date	18-NOV-2022
Revision	0
Ordered	104,132.00 USD
Requisition Number	PEPS-500070-23
Solicitation Number	XF-0468-22
All packing slips, invoices, and correspondence must reference the purchase order number	

Sold To
City of Jacksonville
117 West Duval Street
JACKSONVILLE, FL 32202

Supplier
H.E.R.O.S. Inc.
560 North 54th Street
Suite 9
GILA RIVER INDIAN RESERVATION, AZ 85226

Bill To
City of Jacksonville
117 West Duval Street, Suite 375
JACKSONVILLE, FL 32202

Ship To
JSO Aviation
855-18 St. Johns Bluff Road N
JACKSONVILLE, FL 32225 US

Notes In accordance with Bid #: XF-0468-22

Supplier Number	Payment Terms	Freight Terms	FOB	Shipping Method
27090	**Net 30**	**Freight Prepaid**	**FOB Destination**	**Best Way**

Buyer	Deliver To Contact
Olive Wallace Cohen Email: **owcohen@coj.net**	**Ronald Battles** E-mail: **ronald.battles@jaxsheriff.org**

Line	Item	Price	Quantity	UOM	Ordered	Taxable
1	Rolls Royce 250-C47B Engine Turbine Section Inspection and Overhaul per Bid XF-0468-22 00111.561102.534050.000000.00000000.00000.0000000	104,132.00				

Ship To
JSO Aviation
855-18 St. Johns Bluff Road N
JACKSONVILLE, FL 32225

Promised

Requested
11/28/22

104,132.00

Requested Date correspond to the date of arrival at the Ship-to Location.

Line Total **104,132.00**

Purchase Order 651249-23

Line	Item	Price	Quantity	UOM	Ordered	Taxable
			Total		104,132.00	

This Order is subject to the General Conditions attached here to. Manufacturer's Federal excise tax exempt no 59-89-0120K Florida State sales and use tax exemption no. 85-8012621607C-8	Approved by Dustin L. Freeman, Chief of Procurement Division

SUBJECT: ROLLS-ROYCE 250-C47B ENGINE TURBINE SECTION ROLLS-ROYCE 250-C47B ENGINE TURBINE SECTION INSPECTION AND OVERHAUL

BID #: XF-0468-22 **OPEN DATE:** 10/12/2022

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT: One-Time Purchase

AGENCY: Jacksonville Sheriff's Office

BASIS OF AWARD: All or None, to the lowest responsive, responsible bidder

NUMBER OF BIDS INVITED: 17 **NUMBER RECEIVED:** 2 **OTHER:** 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS: Recommend approval to reject the bid from Airborne Engines, Ltd. for not meeting the 30-day service delivery term as required by the bid specification.

Recommend approval of award to H.E.R.O.S., Inc. as the lowest responsive, responsible bidder for the purchase of Rolls Royce 250-C47B Engine Turbine Section Rolls-Royce 250-C47B Engine Turbine Section Inspection and Overhaul for the Jacksonville Sheriff's Office. Total estimated award not to exceed $104,132.00.

Funding for this award to be encumbered by account 00111.561102.534050.000000.00000000.00000.0000000, to be executed by purchase order.

Attachments: Recommendation Memo, Tabulation Sheet, Terms and Conditions, Specifications, Rejection Letter

Analyst: O Wallace-Cohen
OLIVE WALLACE-COHEN

RESPECTFULLY SUBMITTED:
DUSTIN FREEMEN, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: DELORES O'NEAL, DIRECTOR OF POLICE SERVICES

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 3 MEMBERS DISAPPROVING 0 DATE: 11/3/2022

OTHER:

ACTION OF AWARDING AUTHORITY DATE 11/4/2022

APPROVED ✓ DISAPPROVED

OTHER

SIGNATURE OF AUTHENTICATION

Brian Hughes
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of:
Executive Order No: 2019-02