

Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Contract #: NASPO ValuePoint - 05715

Attn: Mark Ketchum 220 South 1st Street

Broken Arrow, OK 74013

e-mail: MKetchum@BrokenArrowOK.Gov

Phone: 918-697-1980

Quoted by: LightSpeed Technologies

1829 Celeste Drive, Building 1

Wall, NJ 07719 Tel: (732) 556-0086

Fax: (732) 782-0305

Sales Person: Scott Nelson

e-mail: SNelson@LightSpeedT.com

Mobile: (972) 839-2641 Date: April 6, 2020

This quotation is valid for 60 days

# Microwave System Pricing Summary - 1+1 Monitored Hot-Standby

Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total		
Equipment										
Wavence 9500 MPR Microwave Packet Radio - 1+1 Monitored Hot-Standby, UBT-S ODUs	\$11,134.40	\$28,019.17	\$11,484.40	\$0.00	\$0.00	\$5,600.00	\$0.00	\$56,237.97		
Antennas, Line and Materials	\$12,413.88	\$21,263.95	\$15,981.97	\$0.00	\$0.00	\$0.00	\$0.00	\$49,659.80		
DC Power	\$1,820.00	\$1,820.00	\$1,820.00	\$0.00	\$0.00	\$910.00	\$0.00	\$6,370.00		
Equipment Subtotal:	\$25,368.28	\$51,103.12	\$29,286.37	\$0.00	\$0.00	\$6,510.00	\$0.00	\$112,267.77		
Services										
Microwave Engineering (Path Surveys & Design, Frequency Planning, Licensing and N/W Design)	\$3,906.50	\$6,448.00	\$3,906.50	\$0.00	\$0.00	\$0.00	\$7,610.00	\$21,871.00		
Microwave Installation and Test	\$22,140.00	\$40,908.00	\$24,396.00	\$0.00	\$0.00	\$0.00	\$32,372.00	\$119,816.00		
Services Subtotal:	\$26,046.50	\$47,356.00	\$28,302.50	\$0.00	\$0.00	\$0.00	\$39,982.00	\$141,687.00		
Support										
Wavence Remote Technical Support, Repair and Software Subscription - 3 Years							\$5,865.00	\$5,865.00		
Support Total: \$5,865.00										

Microwave System Total: \$259,819.77

Microwave System Management Adjustment: (\$3

Adjusted Microwave System Total: \$224,429.77

# IP/MPLS System

Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total
Equipment								
7705 SAR Service Aggregation Routers	\$5,617.85	\$5,617.85	\$5,617.85	\$15,018.85	\$15,018.85	\$6,036.28	\$0.00	\$52,927.53
Equipment Subtotal	\$5,617.85	\$5,617.85	\$5,617.85	\$15,018.85	\$15,018.85	\$6,036.28	\$0.00	\$52,927.53
Services								
MPLS Engineering	\$2,100.00	\$2,100.00	\$2,100.00	\$2,100.00	\$2,100.00	\$0.00	\$21,000.00	\$31,500.00
MPLS Installation, Testing & Integration	\$6,072.00	\$6,072.00	\$6,072.00	\$6,072.00	\$6,072.00	\$0.00	\$24,652.00	\$55,012.00
Services Subtotal	\$8,172.00	\$8,172.00	\$8,172.00	\$8,172.00	\$8,172.00	\$0.00	\$45,652.00	\$86,512.00
							-	
Support								

Support Total:

IP/MPLS System Total: \$207,668.53

\$68,229,00

\$68,229.00

MPLS System Management Adjustment:

(\$62,675.00)

\$68,229,00

\$68,229.00

Adjusted IP/MPLS System Total:

\$144,993.53

Combined System - Microwave with IP/MPLS

MPLS & NFM-P Remote Technical Support, Repair and Software Subscription - 3 Years

Combined System Grand Total (with Adjustments): \$369,423.30

Combined System Management Adjustment for Concurrent Purchase & Implementation:

(\$39,440.00)

Adjusted Combined System Grand Total:

\$329,983.30



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Quote #: SN.191203AA.01

Contract #: NASPO ValuePoint - 05715

Attn: Mark Ketchum 220 South 1st Street

Broken Arrow, OK 74013

e-mail: MKetchum@BrokenArrowOK.Gov

Phone: 918-697-1980

# This quotation is valid for 60 days

Quoted by: LightSpeed Technologies

1829 Celeste Drive, Building 1

Wall, NJ 07719 Tel: (732) 556-0086

Fax: (732) 782-0305 Sales Person: Scott Nelson

e-mail: SNelson@LightSpeedT.com

Mobile: (972) 839-2641 Date: April 6, 2020

Training		
9500 MPR Operation	on & Maintenance	See Course List on Training Tab
7705 SAR Operation	on & Maintenance	See Course List on Training Tab
NSP/NFM-P Opera	ition & Maintenance	See Course List on Training Tab

#### NOTES:

- 1) Subject to terms and conditions of NASPO Valuepoint Contract 05715. Where NASPO contract is silent, LightSpeed Technologies Terms and Conditions will apply.
- 2) Prices do not include taxes. Freight costs are included.
- 3) Payment Terms: Payment due Net 30 days.
- 4) Please make Purchase Orders out to:

#### LightSpeed Technologies, Inc.

Attn: John C. Brannon 1829 Celeste Drive, Building 1

Wall, NJ 07719

732-556-0086 Office

- 5) For expedited processing, Orders should be faxed, or emailed, to <u>John C. Brannon</u> at fax #732-782-0305, or (jcbrannon@lightspeedt.com).
- 6) Prices quoted are valid for 60 days.
- 7) Pricing is valid only for the equipment, equipment features, and services included in this quote. Any equipment item, equipment feature, installation item, or service not explicitly quoted is not included in this pricing, and any addition of such will require a revised quote with modified pricing.
- 8) Pricing for equipment and services are considered budgetary until the initial engineering assessment can be made -- site surveys, path surveys, and frequency coordination (PCN). Results of the surveys and PCN may impact the antenna elevations, antenna sizes or radio frequencies, and associated materials.
- 9) Installation services are priced on the assumption of work progressing as one continuous scope with no stoppages and a 10-hour workday, Monday through Saturday. Other conditions for site readiness, site availability, permits, etc. are detailed in the accompanying Scope of Work. Project delays not due to LightSpeed or LightSpeed's Subcontractors or Suppliers may incur additional charges including remobilization costs.
- 10) The Wavence 9500 MPR, 7705 SAR and NFM-P come with a standard warranty of one year. An additional extended warranty can be provided for up to 5 years. Pricing is provided for 3 years of extended warranty coverage, including remote technical support, repair services, and software subscription services.
- 11) Remote Technical Support services do NOT include software upgrade support. A Software Subscription Plan must be purchased for upgrade support.



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Project: Microwave Ring Closure 1+1 MHSB - UBT Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Persor Scott Nelson

e-mail: SNelson@LightSpeedT.com Tel: (972) 839-2641

#### Equipment: Wavence 9500 MPR Microwave Packet Radio

Configuration: 1+1 Monitored Hot-Standby UBT-S Radios, With 1+1 Hot-Standby MSS-8

												ValuePoint	Discount	ValuePoint		
Itom	NAFa	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares U	ndistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
iteii	wiig.	UBT Outdoor Radio Units and		riger riiii	water Flairt	TOTIKETS	rieice	Coweta	Spares D	ilaistiibatet	iotai	WISKF	70	Office	LXL FIICE	Notes
1	Nokia	3DB29106AA	UBT-S 5.8-6GHz HP		2	2			1		5	\$8,000.00	65.0%	\$2,800.00	\$14,000.00	
2	Nokia	3DB29111AA	UBT-S 10-11 GHz HP	2	2	2			1		5	\$8,000.00	65.0%	\$2,800.00	\$14,000.00	
3				2	2	2			1		4					
		3DB28590AA 3DB28590BA	AIM-S 6GHz 252,04 MHz SB1		2	2					0	\$1,500.00		\$525.00	\$2,100.00	
3	Nokia		AIM-S 6GHz 252,04 MHz SB2								•	\$1,500.00	65.0%	\$525.00	\$0.00	
4	Nokia	3DB28590CA	AIM-S 6GHz 252,04 MHz SB3	_	_						0	\$1,500.00		\$525.00	\$0.00	_ , , , , , , , , , , , , , , , , , , ,
5	Nokia		AIM-S 11GHz 490-500-520-530MHz SB1	2	2						4	\$1,500.00	65.0%	\$525.00		Final selection of diplexer range following PCN
6	Nokia	3DB28210BA	AIM-S 11GHz 490-520-530MHz SB2								0	\$1,500.00		\$525.00		Final selection of diplexer range following PCN
7	Nokia	3DB28210CA	AIM-S 11GHz 490-520-530MHz SB3								0	\$1,500.00		\$525.00		Final selection of diplexer range following PCN
8	Nokia	3DB28210DA	AIM-S 11GHz 490-500-520-530MHz SB4								0	\$1,500.00	65.0%	\$525.00		Final selection of diplexer range following PCN
9	Nokia		Coupler 10 dB 6GHz UBT		1	1					2	\$886.00	65.0%	\$310.10	\$620.20	
10	Nokia	3CC58350AA	Coupler 10 dB 10/11 GHz UBT	1	1						2	\$886.00	65.0%	\$310.10	\$620.20	
		UBT Licenses														
11	Nokia	3MU00177ABAA	RTU 100Mbps UBT-S Capacity	2							2	\$3,000.00	65.0%	\$1,050.00	\$2,100.00	
12	Nokia	3MU00177ACAA	RTU 160Mbps UBT-S Capacity			2					2	\$3,500.00	65.0%	\$1,225.00	\$2,450.00	
13	Nokia	3MU00180ABAA	RTU 100Mbps UBT-S Capacity		2						2	\$3,000.00	65.0%	\$1,050.00	\$2,100.00	
14	Nokia	3MU00180ACAA	RTU 160Mbps UBT-S Capacity		2						2	\$3,500.00	65.0%	\$1,225.00	\$2,450.00	
15	Nokia	3MU00177BDAA	RTU UBT-S Adp Mod	2		2					4	\$1,500.00	65.0%	\$525.00	\$2,100.00	
14	Nokia	3MU00180BDAA	RTU UBT-S Adp Mod		4						4	\$1,500.00	65.0%	\$525.00	\$2,100.00	
		Microwave Service Switch (M	SS)													
15	Nokia	3EM22715AH	9500 MPR Shelf Kit w/FanEvo - HSv2		1						1	\$2,150.00	65.0%	\$752.50	\$752.50	
16	Nokia	3DB18163AB	MSS Slot Cover - Blank Plate 1/2H		2						2	\$40.60	65.0%	\$14.21	\$28.42	
17	Nokia	3EM24105AA	Fan Alarm Cable - 25 foot		1						1	\$175.00	65.0%	\$61.25	\$61.25	
18	Nokia	3DB18788BA	CorEvo-10G		2						2	\$3,010.00	65.0%	\$1,053.50	\$2,107.00	Common spares with Wagoner County system
19	Nokia	3DB19017AB	Ethernet Access Module Version2 with PoE		2						2	\$2,400.00	65.0%	\$840.00		Common spares with Wagoner County system
20	Nokia	3CC50120AA	DC injector plug-in	2	2	2					6	\$250.00	65.0%	\$87.50	\$525.00	3
20		3DB17010HAAB	Wavence 18 SW Electronic Delivery Kit		1						1	\$1,000.00		\$350.00	\$350.00	
21	Nokia	3DB17020BAAA	Wavence 18 uSD Card for CoreEvo-10G		2						2	\$100.00	65.0%	\$35.00	\$70.00	
	Nokia	3EM23067AAAA	9500 MPR CT License (Per PC Installed)		_						0	\$500.00	65.0%	\$175.00		Not required Web Browser GUI in R18 and higher
	1401110	Tributary Options	3300 Mil N et Electise (i et i e installed)								Ü	<b>\$300.00</b>	03.070	ψ1/3.00	\$0.00	Not required Web Browser Committee and migner
23	Nokia	3CC50167AA	1000BASE-SX SFP (mm fiber only)	4	8	4					16	\$70.00	65.0%	\$24.50	\$392.00	Common spares with Wagoner County system
24		3CC50167AA	1000BASE-SX SFP (mm fiber only)	2	2	2					6	\$70.00	65.0%	\$24.50	\$147.00	common spares with Wagoner county system
	Nokia	3MU00085AF	20 ft RJ45 Cat5e Cable	1	1	1					3	\$103.71		\$36.30	\$108.90	
23	IVORIG	Rack and PDU	20 It 1043 catise cable	-	-	-					3	Ģ103.71	03.070	230.30	Ģ100.50	
26	Nokia	3EM13317AB	Power Distribution Panel with Fuse Alarm Card included		1						1	\$910.00	65.0%	\$318.50	\$318.50	
27			Aluminum Rack Screw Kit		1						1	\$100.00		\$35.00	\$35.00	
21	INUKIA	NFM-P License Points	Aluminum Rack Screw Kit		1						1	3100.00	03.076	\$33.00	\$33.00	
20	Nokia	3HE11801DA	NSP: NFM-P STANDARD LP	4	10	4					18	\$190.00	65.0%	\$66.50	¢1 107 00	Quantity based 2 per MSS plus 2 per UBT radio
20	INUKIA	Manuals and Documentation	NSP. NFWI-P STANDARD EP	4	10	4					10	\$190.00	03.0%	\$66.50	\$1,197.00	Quantity based 2 per MSS plus 2 per OBT radio
20	Nokia	3EM24226AA	Microwave Factory Test Certificate		1						1	\$1.500.00	65.0%	\$525.00	\$525.00	
			·		1						0					Commence of the Commence of th
30	Nokia	3DB19275AFAA Freight	Wavence 18 O&M Manual Electronic Delivery OLCS								U	\$90.00	65.0%	\$31.50	\$0.00	Common documentation with Wagoner County System
24	Nok:-	•	MANA/ Droduct Freight nor radio rack		1	1					3	¢1 143 00	CE 00/	¢400.00	¢1 200 00	
31	Nokia	SVC-YGRL-RF1	MW Product Freight per radio rack	1	1	1					3	\$1,142.86	65.0%	\$400.00	\$1,200.00	
			Mayonee Bodic Facilities of Sul-	total: ¢11 124 40	639.010.47	¢11 404 40	ć0 00	ć0.00	¢E 600 00	¢0.00	¢56 227 07				¢56 227 07	
			Wavence Radio Equipment Sub	iviai. \$11,134.40	\$20,019.17	\$11,484.4U	\$0.00	\$0.00	\$5,600.00	\$0.00	\$56,237.97				\$56,237.97	

NASPO

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Sales Person: Scott Nelson

136

Centerline #1 (feet):

Contarling #1 (foot):

e-mail: SNelson@LightSpeedT.com Tel: (972) 839-2641

245

105

Equipment: Microwave Antennas, Lines, Ice Shields & Misc. Materials

Center Lines

Tiger Hill CL facing Water Plant = 136' (41.5m) Water Plant CL facing Tiger Hill = 245' (74.7m) Water Plant CL facing Yonkers = 85' (25.9m) Yonkers CL facing Water Plant = 105' (32m)

NASPO

NASPO

ValueBoint

			Centerline #1 (feet):		85							ValuePoint Discount ValuePoint			
Item	Mfg.	Part Number Integrated Antennas f	Description or UBT	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price Notes
1	Nokia	10046195	SB6-W60D2UBTR, 5.925 - 7.125 , Ant int UBT 6ft 6GHz SP		1	1					2	\$8,603.00	65.0%	\$3,011.05	\$6,022.10 Final antenna sizes and types to be determined by path surveys and RF engineering
2	Nokia	10046181	SB4-W100EUBTR, 10 - 11,7, Ant UBT Int 4ft 10/11 GHz SP	1	1						2	\$4,250.00	65.0%	\$1,487.50	\$2,975.00 Final antenna sizes and types to be determined by path surveys and RF engineering
		RFS Antennas													yy
3	RFS	37500079	PAD8-W57AC7S1R - 6 GHz parabolic ant., 8-ft dia., single pol., w/radome & 2 struts								0	\$13,961.67	65.0%	\$4,886.59	\$0.00 Final antenna sizes and types to be determined by path surveys and RF engineering
		Ice Shields													
4	Misc.	1AF24588AAAA	Valmont ice shield KIT - 4ft (ISMD4-R5LL = 800250 (ice shield) + 409081365 (leg mount))	1							1	\$14,770.29	65.0%	\$5,169.60	\$5,169.60 Final site materials to be determined by site surveys
5	Misc.	1AF24589AAAA	Valmont ice shield KIT - 6ft (ISMD6-R5LL = 800251 (ice shield) + 409081365 (leg mount))		1	1					2	\$18,104.91	65.0%	\$6,336.72	\$12,673.44 Final site materials to be determined by site surveys
6	Misc.	1AF24587AAAA	Valmont ice shield KIT - 8ft (ISMD8-R5LL = 800252 (ice shield) + 409081365 (leg mount))								0	\$21,667.89	65.0%	\$7,583.76	\$0.00 Final site materials to be determined by site surveys
7	Misc.		Misc Hardware Kit (cut over plan)	1	1	1					3	\$2,190.00	65.0%	\$766.50	\$2,299.50 Final site materials to be determined by site surveys
		<b>UBT Installation Mate</b>													
8	Nokia	3CC52210BC	fiber cord MM LC-LC for UBT + MSS-O 25m								0	\$222.00	65.0%	\$77.70	\$0.00
9	Nokia	3CC52210BD	fiber cord MM LC-LC for UBT + MSS-O 50m	2	2	2					6	\$348.00	65.0%	\$121.80	\$730.80
10	Nokia	3CC52210BE	fiber cord MM LC-LC for UBT + MSS-O 80m		2						2	\$443.00	65.0%	\$155.05	\$310.10
11	Nokia	3CC52210BF	fiber cord MM LC-LC for UBT + MSS-O 100m	_	_	_					0	\$570.00	65.0%	\$199.50	\$0.00
12	Nokia	3CC50095AA	Fiber storage - rack mount (25 m)	2	4	2					8	\$313.71	65.0%	\$109.80	\$878.39
13	Nokia	1AB235300005	OCTIS connector housing for fibers	2	4	2					8	\$59.00	65.0%	\$20.65	\$165.20
14	Nokia	1AB235300004	OCTIS connector housing for RJ45	2	4	2					8	\$53.00	65.0%	\$18.55	\$148.40
15	Nokia	3CC52199AC	75m Preassembled CAT5e R2TC/RJ45								0	\$1,081.00	65.0%	\$378.35	\$0.00
16	Nokia	3CC52199AD	100m Preassembled CAT5e R2TC/RJ45	,	16	-					0	\$1,408.00	65.0%	\$492.80	\$0.00
17	Nokia	1AD040130004	Ground kit – (qty 3 per run, based on length)	6 2	16 4	6					28 8	\$58.52	65.0%	\$20.48	\$573.50
18 19	Nokia Nokia	1AB328430001	Lightning arrestor RJ-45 router ouput (MPRe)	2	4	2 1					3	\$725.25	65.0% 65.0%	\$253.84	\$2,030.70
19	Nokia	1AB119710002 Other Installation Mai	BNC-bananas adapter for antenna alignment	1	1	1					3	\$86.00	65.0%	\$30.10	\$90.30
20	Misc.	10031054	Kit Sway Bar 6ft Refl (SMA-SK-60-2000A)		1	1					2	\$1,296.00	65.0%	\$453.60	\$907.20 Final site materials to be determined by site surveys
21	Misc.	409081635	UNIV ADJ LEG MT- UP TO 10 3/4 LEG (Ant. Pipe Mount/Ice Shield)	1	2	1					4	\$2,116.00	65.0%	\$740.60	\$2,962.40 Final site materials to be determined by site surveys
21	IVIISC.	409061633	ONIV ADJ LEG IVIT- OF TO 10 5/4 LEG (ATIL. PIPE IVIOUNIT/ICE SHIEIU)	1	2	1					4	\$2,110.00	05.0%	\$740.00	52,962.40 Final site materials to be determined by site surveys
22	Misc.	1AF25490ABAA	Angle Member Adapter Kit, 3/8in Stainless Steel (Valmont ADAP-O) (10 pack)	5	11	4					20	\$351.77	65.0%	\$123.12	\$2,462.40 Final site materials to be determined by site surveys
23	Misc.	1AF19821AAAA	Cushion hangers - (4) 9.9mm and (5) 6.1mm barrel cushion that fits into 1 5/8in snap-in (Qty. 10) - (Valmont BC144384)	5	11	4					20	\$151.61	65.0%	\$53.06	\$1,061.28 Final site materials to be determined by site surveys
24	Misc.	SVC-YGRL-MISCHDW Freight	Misc Hardware Kit (cut over plan)	1	1	1					3	\$2,190.00	65.0%	\$766.50	\$2,299.50 Final site materials to be determined by site surveys
25	Nokia	SVC-YGRL-AS1	MW Product Freight per small antenna								0	\$857.14	65.0%	\$300.00	\$0.00 Quantities cover addition freight ice shields, if required
26	Nokia	SVC-YGRL-AS2	MW Product Freight per medium antenna	2	1						3	\$1,428.57	65.0%	\$500.00	\$1,500.00 Quantities cover addition freight ice shields, if required
27	Nokia	SVC-YGRL-AS3	MW Product Freight per large antenna (or HI and AK)		2	2					4	\$2,285.71	65.0%	\$800.00	\$3,200.00 Quantities cover addition freight ice shields, if required
28	Nokia	SVC-YGRL-RF1	MW Product Freight per radio rack	1	1	1					3	\$1,142.86	65.0%	\$400.00	\$1,200.00 For cables and materials
			Antenna Equipment Subtotal:	\$12,413.88	\$21,263.95	\$15,981.97	\$0.00	\$0.00	\$0.00	\$0.00	\$49,659.80				\$49,659.80



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Tel: (972) 839-2641

Equipment: -48 VDC Rectifiers

Item	•	Part Number Duracom Power	Description supplies	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	NASPO ValuePoint MSRP	Discount %	NASPO ValuePoint Unit Price	Ext. Price N	lotes
1	DuraComm	RM-2548M	AC/DC Rack Mount Power Supply with Meter, Input 110/220VAC, Output 48VDC, 25A	2	2	2			1		7	\$2,600.00	65.0%	\$910.00	\$6,370.00	
			DC Power Equipment Subtotal:	\$1,820.00	\$1,820.00	\$1,820.00	\$0.00	\$0.00	\$910.00	\$0.00	\$6,370.00				\$6,370.00	





**Project:** Microwave Ring Closure 1+1 MHSB - UBT

Proposal # SN.191203AA.01

Date: April 6, 2020

DC Power Calculat	ions.		Tiger Hill	Water Plant	Yonkers
Specifications					
Battery Reserve Time (Hours)	8	<== 8 Hours Typical			
Battery Recharge Time (Hours)	24	<== 24 Hours Typical			
Battery Type Calculation Factor	1.1	<== 1.1 for Lead Acid or 1.4 for NiCad			
System Voltage	48				
Load Growth Factor	25%	<== (percent desired add'l capacity.)			
Equipment Load	<u>Watts</u>		194	267	194
9500 MPR Shelf Kit w/Alarm FAN Evo-HSv3	25		1	1	1
CorEvo-10G	36		1	1	1
Ethernet Access Card 10G (EAC-10G)	30		2	2	2
MPT-XP-HQAM L6GHz low	73			1	1
MPT-XP-HQAM 11GHz low	73		1	1	
<u>Calculations</u>					
Equipment Load @ 48VDC (Amps)			4	6	4
Total Load w/Growth Factor (Amps)			5	7	5
Min Battery Capacity @ 8 Hours (AH)			42	56	42
Actual Battery Size (AH)					
Calculated Charger Size			7	10	7



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Sales Person Scott Nelson

e-mail: SNelson@LightSpeedT.com Tel: (972) 839-2641

Services: Microwave Engineering

Configuration: Path Design, Frequency Planning & Licensing, Network Design

													Discount	ValuePoint		
Item	Mfg.		Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
		Path Survey ( <= 11 GHz)														
1		SVC-KWIE-ENG-TSE10	Path Survey (1st hop for a connected multi-hop system)	0.5	0.5						1.0	\$11,237.14	65.0%	\$3,933.00	\$3,933.00	)
2		SVC-KWIE-ENG-TSE11	Path Survey (Each single path in a multi-hop system, not connected)		0.5	0.5					1.0	\$11,237.14	65.0%	\$3,933.00	\$3,933.00	)
3		SVC-KWIE-ENG-TSE12	Path Survey (Each single path in a multi-hop system, not connected)								0.0	\$11,237.14	65.0%	\$3,933.00	\$0.00	)
4		SVC-KWIE-ENG-TSE13	Path Survey Air Fare (per survey)(1 Surveyor with equipment shipment)							1.0	1.0	\$11,428.57	65.0%	\$4,000.00	\$4,000.00	)
		Path Design														
5		SVC-KWIE-ENG-TSE16	System Map (1–10 paths)							1.0	1.0	\$285.71	65.0%	\$100.00	\$100.00	)
6		SVC-KWIE-ENG-TSE18	Path Design (per path)	0.5	1.0	0.5					2.0	\$428.57	65.0%	\$150.00	\$300.00	)
7		SVC-KWIE-ENG-TSE19	Path Performance Calculations (per path)	0.5	1.0	0.5					2.0	\$428.57	65.0%	\$150.00	\$300.00	)
	Frequency Selection and Coordination		rdination													
8		SVC-KWIE-ENG-TSE20	Frequency Selection (2, 6, 6.7, 11 GHz bands / per path)	0.5	1.0	0.5					2.0	\$2,428.57	65.0%	\$850.00	\$1,700.00	)
9		SVC-KWIE-ENG-TSE22	Normal 30-day Prior Coordination (per system)							1.0	1.0	\$885.71	65.0%	\$310.00	\$310.00	)
		FCC License Application														
10		SVC-KWIE-ENG-TSE29	FCC License Application Prep (/Mod) (per site / Form 601) (2)	1.0	1.0	1.0					3.0	\$1,328.57	65.0%	\$465.00	\$1,395.00	)
11		SVC-KWIE-ENG-TSE43	FCC License Fees (Note 1.5)(new site)(per site)	1.0	1.0	1.0					3.0	N/C	N/C	N/C	N/C	FCC doesn't charge govt.
																agencies for licensing
		Network Engineering														
12		SVC-KWIE-ENG-TSE35	Network Engineer (per Hour)	4.0	4.0	4.0				16.0	28.0	\$500.00	65.0%	\$175.00	\$4,900.00	)
13		SVC-KWIE-ENG-TSE36	Network Engineering Drawings (per Hour)	2.0	2.0	2.0				4.0	10.0	\$285.71	65.0%	\$100.00	\$1,000.00	)
			Path Design, Frequency Planning & Engineering Subtotal:	\$3,906.50	\$6,448.00	\$3,906.50	\$0.00	\$0.00	\$0.00	\$7,610.00	\$21,871.00				\$21,871.00	1

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Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Person Scott Nelson

e-mail: SNelson@LightSpeedT.com

Tel: (972) 839-2641

#### Services: Microwave Installation & Test

Configuration: Two Hops of Wavence 9500 MPR with MSS-8, Antennas, Ice Shields, DC Power

		Comiguration	. Two riops of wavenee 5500 will it with wiss 6, Antennas, ice sinclus, be rower													
			Centerline #1 (feet). Centerline #1 (feet).	136	245 85	105						NASPO ValuePoint	Discount	NASPO ValuePoint		
Item	Task	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
		Site Survey	2001-2001		·······	Tormers			opu.co	J. a.str. ibate.			,,	0	LAGITIEC	
1		SVC-QHIE-ENG-FE1	Field Service Engineer (Per Man Hour)	4	8	4				12	28	\$514.29	65.0%	\$180.00	\$5,040.00	
2		SVC-QHIE-ENG-FE3	Air Fare (per man) (1 Engineer with equipment shipment)		Ü	•				1	1	\$11,428.57	65.0%	\$4,000.00	\$4,000.00	
-		370 Q.II. 2110 123	7 in rare (per man) (2 chightest with equipment simplificity)							-	-	Ų11, 120.5 <i>,</i>	03.070	ŷ 1,000.00	φ 1,000.00	
		Antenna, Line & Ice Shield Ins	tallation													
3	Site/Tower Preparation	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	12	12	12					36	\$1,074.29	65.0%	\$376.00	\$13,536.00	1
4	Antenna/Line Inst.	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	16	48	22					86	\$1,074.29	65.0%	\$376.00	\$32,336.00	1
5	Install Ice Shields	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	6	9	9					24	\$1,074.29	65.0%	\$376.00	\$9,024.00	
6	De-install existing Dragonwave	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	3	3						6	\$1,074.29	65.0%	\$376.00	\$2,256.00	
	ODUs															
7	Site/Tower Cleanup	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	6	9	6					21	\$1,074.29	65.0%	\$376.00	\$7,896.00	1
8		SVC-QHIE-ENG-FE2	Field Living Expenses (per man per calendar day)							22	22	\$971.43	65.0%	\$340.00	\$7,480.00	
		9500 MPR Installation	AC								4.5	44.074.00	CE 00/	4275.00	45.045.00	
9	Install MPT-HQAM ODU	SVC-QHIE-INST-INCOM1	Microwave Antenna / Tower Installation Services (Per Man Hour)	4	8	4					16	\$1,074.29		\$376.00	\$6,016.00	
10	Install MSS-8	SVC-QHIE-INST-INCOM2	Radio Installation Services (Per Man Hour)	2	2	2					6	\$902.86		\$316.00	\$1,896.00	
11	Test MPT-HQAM & MSS-8	SVC-QHIE-INST-INCOM3	Radio Commissioning and Test Services (Per Man Hour)	6	12	6					24	\$902.86		\$316.00	\$7,584.00	
12	Install Power	SVC-QHIE-INST-INCOM4	Ancillary Equipment Installation and Test Services (Per Man Hour)	1	1	1					3	\$902.86		\$316.00	\$948.00	
13	NFM-P Integration	SVC-QHIE-INST-INCOM7	Network Management Engineering (Per Man Hour)	1	1	1				8	11	\$525.71	65.0%	\$184.00	\$2,024.00	
14		SVC-QHIE-ENG-FE2	Field Living Expenses (per man per calendar day)							7	7	\$971.43	65.0%	\$340.00	\$2,380.00	
		Project Management														
15		SVC-QHIE-INST-INCOM5	Deployment Project Management (Per Man Hour)	4	6	4				16	30	\$514.29	65.0%	\$180.00	\$5,400.00	
13		SVC QUIE INST-INCOINS	Deployment Project Management (Fel Man Hour)	4	O	7				10	30	JJ14.23	05.076	\$180.00	<i>↓</i> 5,+00.00	
		Mob/ De-mob														
16		SVC-QHIE-INST-INCOM9	Air Fare (per man)(1 Engineer with equipment shipment)							3	3	\$11,428.57	65.0%	\$4,000.00	\$12,000.00	
			Microwave Installation, Test & Integration Subtotal	· \$22 140 00	\$40 908 00	\$24 396 00	\$0.00	\$0.00	\$0.00	\$32,372.00					\$119,816.00	
				. , , _ 10.00	+,500.00	+= .,=50.00	+=.00	+ =.00	+ 5.00	+==,=,=.					+,510.00	



Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

uoted by: LightSpeed Technologies

Sales Pers Scott Nelson

e-mail: SNelson@LightSpeedT.com

NASPO

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Tel: (972) 839-2641

# Services: Maintenance - Microwave

Detail: Remote Technical Support, Repair and Exchange, Software Subscription

											ValuePoint	Discount	ValuePoint		
Item	Mfg.	Part Number	Description	Tiger Hill N	ater Plan Yonk	ers Pier	e Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
		Wavence 9500 MPR N	1icrowave Packet Radio												
1	Nokia	301090767-9500	Technical Support Gold (7x24x365 annual rate per hop) - Year 1						2	2	\$628.57	65.0%	\$220.00	\$440.0	0 Year 1
2	Nokia	301090767-9500	Technical Support Gold (7x24x365 annual rate per hop) - Year 2						2	2	\$628.57	65.0%	\$220.00	\$440.0	0 Year 2
3	Nokia	301090767-9500	Technical Support Gold (7x24x365 annual rate per hop) - Year 3						2	2	\$628.57	65.0%	\$220.00	\$440.0	0 Year 3
4	Nokia	301090775-9500	Standard Repair 45 days (annual rate after warranty per hop) - Year 1						Warranty	0	\$2,871.43	65.0%	\$1,005.00	\$0.0	0 Year 1
5	Nokia	301090775-9500	Standard Repair 45 days (annual rate after warranty per hop) - Year 2						2	2	\$2,871.43	65.0%	\$1,005.00	\$2,010.0	0 Year 2
6	Nokia	301090775-9500	Standard Repair 45 days (annual rate after warranty per hop) - Year 3						2	2	\$2,871.43	65.0%	\$1,005.00	\$2,010.0	0 Year 3
7	Nokia	3EM24592AAAB	9500 MPR Software Subscription (Per Node) - Year 1						1	1	\$500.00	65.0%	\$175.00	\$175.0	0 Year 1
8	Nokia	3EM24592AAAB	9500 MPR Software Subscription (Per Node) - Year 2						1	1	\$500.00	65.0%	\$175.00	\$175.0	0 Year 2
9	Nokia	3EM24592AAAB	9500 MPR Software Subscription (Per Node) - Year 3						1	1	\$500.00	65.0%	\$175.00	\$175.0	0 Year 3
			Maintenance Subtotal:	\$0.00	\$0.00 \$0	0.00 \$0	.00 \$0.0	0 \$0.00	\$5,865.00	\$5,865.00		Mainter	ance Subtotal:	\$5,865.00	



Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Person: Scott Nelson

e-mail: SNelson@LightSpeedT.com

Tel: (972) 839-2641

**Equipment: 7705 Service Aggregation Router** 

Configuration: With redundant CSM and redundant 8-Port GE/FE cards

												ValuePoint	Discount	ValuePoint		
Item	Mfg.	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
		7705 SAR-8 Service	e Aggregation Routers													
1	Nokia	3HE06791AA	SAR-8 SHELF V2				1	1			2	\$4,250.00	65.0%	\$1,487.50	\$2,975.00	)
2	Nokia	3HE06792EA	Fan Module (SAR-8 Shelf V2) Ext Temp				1	1	1		3	\$1,870.00	65.0%	\$654.50	\$1,963.50	)
3	Nokia	3HE02784KA	SAR RELEASE 8.0 BASIC OS LICENSE	1	1	1	1	1			5	\$1,445.00	65.0%	\$505.75	\$2,528.75	j
4	Nokia	3HE02774AB	CONTROL SWITCH MODULE V2 (CSMV2)				2	2	1		5	\$5,950.00	65.0%	\$2,082.50	\$10,412.50	)
5	Nokia	3HE02776AB	8 PORT GE/FE ETHERNET CARD V2	1	1	1	2	2	1		8	\$8,840.00	65.0%	\$3,094.00	\$24,752.00	)
6	Nokia	3HE00027CA	SFP - GIGE SX - LC ROHS 6/6 DDM -40/85C	4	4	4	4	4	1		21	\$586.50	65.0%	\$205.28	\$4,310.78	3
		NFM-P License Po	ints													
7	Nokia	3HE11801DA	NSP: NFM-P STANDARD LP	18	18	18	18	18			90	\$190.00	65.0%	\$66.50	\$5,985.00	)
			7705 SAR-8 Equipment Subtotal:	\$5,617.85	\$5,617.85	\$5,617.85	\$15,018.85	\$15,018.85	\$6,036.28	\$0.00	\$52,927.53				\$52,927.53	3

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#### Notes:

1) For calculating maintenance costs, the reference price for a single complete node (Pierce), excluding NFM-P licenses, is:

\$15,018.85 Site total for Pierce

-\$1,197.00 Less NSP/NFM-P License Points (18 @ \$66.50each.

\$13,821.85 per node

\$69,109.25 for a complete 5-node system



Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Person Scott Nelson

e-mail: SNelson@LightSpeedT.com

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Tel: (972) 839-2641

S	erv	ices:	MPLS	Engi	ineer	ing

**Configuration:** MPLS routers connected via microwave radio, 5-node ring with fast re-route (See summary page for discounts for engineering concurrent with microwave)

												ValuePoint (	Discount	ValuePoint		
Item	Task	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price	Notes
		MPLS Engineering														
1	Design Consultation	3HE06636AA	Professional Svcs - Remote (Includes Design, Consultation & IOT) (per day)							2.0	2.0	\$7,000.00	40.0%	\$4,200.00	\$8,400.00	J
2	High- & Low- Level Design	3HE06636AA	Professional Svcs - Remote (Includes Design, Consultation & IOT) (per day)	0.5	0.5	0.5	0.5	0.5		3.0	5.5	\$7,000.00	40.0%	\$4,200.00	\$23,100.00	J
			MPLS Engineering Subtotal:	\$2,100.00	\$2,100.00	\$2,100.00	\$2,100.00	\$2,100.00	\$0.00	\$21,000.00	\$31,500.00				\$31,500.00	J





Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01 Ref: NASPO ValuePoint - 05715 Sales Person: Scott Nelson

e-mail: SNelson@LightSpeedT.com

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Quoted by: LightSpeed Technologies

Tel: (972) 839-2641

#### Services: 7705 SAR Installation and Test, Integration with NFM-P

Configuration: 5-node MPLS ring interconnected by microwave, non-concurrent installation (See summary page for discounts for installation concurrent with microwave)

												valuePoint	Discount	valuePoint	
Item	Task	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price Notes
		7705 SAR-8 Installation													
3	Install & Test 7705 SAR-8	301036786	Installation - OnSite (T&L not included)	4	4	4	4	4			20	\$305.00	40.0%	\$183.00	\$3,660.00 per man-hour
4	7705 SAR NW Integration	3HE02941AA	Integration - Staging support	4	4	4	4	4		16	36	\$600.00	40.0%	\$360.00	\$12,960.00 per man-hour
5	NFM-P Integration	3HE02941AA	Integration - Staging support	4	4	4	4	4		12	32	\$600.00	40.0%	\$360.00	\$11,520.00 per man-hour
6		SVC-QHIE-ENG-FE2	Field Living Expenses (per man per calendar day)							11	11	\$971.43	65.0%	\$340.00	\$3,740.00
		Mob/ De-mob													
7		SVC-QHIE-INST-INCOM9	Air Fare (per man)(1 Engineer with equipment shipment)							2	2	\$11,428.57	65.0%	\$4,000.00	\$8,000.00
		Project Management													
8		SVC-QHIE-INST-INCOM5	Deployment Project Management (Per Man Hour)	2	2	2	2	2		8	18	\$514.29	65.0%	\$180.00	\$3,240.00
			MPLS Installation, Test & Integration Subtotal:	\$6,072.00	\$6,072.00	\$6,072.00	\$6,072.00	\$6,072.00	\$0.00	\$24,652.00	\$55,012.00				\$55,012.00



Customer: City of Broken Arrow

Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Persor Scott Nelson

e-mail: SNelson@LightSpeedT.com

Tel: (972) 839-2641

Services: Maintenance - MPLS and NFM-P

Detail: Remote Technical Support, Repair and Exchange, Software Subscription

												ValuePoint		ValuePoint	
Item	Mfg.	Part Number	Description	Tiger Hill	Water Plant	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	Unit Price	Ext. Price Notes
		7705 SAR-8 Servi	ce Aggregation Routers												
1	Nokia	301013231	7705 SAR - Remote Technical Support Gold - Year 1							1	1				\$3,500.00 Note 1
2	Nokia	301013231	7705 SAR - Remote Technical Support Gold - Year 2							1	1				\$3,500.00 Note 1
3	Nokia	301013231	7705 SAR - Remote Technical Support Gold - Year 3							1	1				\$3,500.00 Note 1
4	Nokia	301048468	7705 SAR - (RES-RFR) - Year 1							Warranty	0				Warranty Note 1
5	Nokia	301048468	7705 SAR - (RES-RFR) - Year 2							1	1				\$3,750.00 Note 1
6	Nokia	301048468	7705 SAR - (RES-RFR) - Year 3							1	1				\$3,750.00 Note 1
7	Nokia	3HE05610AB	7705 SAR - Software Subscription Plan - Year 1							1	1				\$1,728.00 Note 2
8	Nokia	3HE05610AB	7705 SAR - Software Subscription Plan - Year 2							1	1				\$1,728.00 Note 2
9	Nokia	3HE05610AB	7705 SAR - Software Subscription Plan - Year 3							1	1				\$1,728.00 Note 2
		NFM-P Nework F	unction Manager, Packet												
1	Nokia	301013231	NSP/NFM-P - Remote Technical Support Gold - Year 1							1	1				\$3,500.00 Note 3
2	Nokia	301013231	NSP/NFM-P - Remote Technical Support Gold - Year 2							1	1				\$3,500.00 Note 3
3	Nokia	301013231	NSP/NFM-P - Remote Technical Support Gold - Year 3							1	1				\$3,500.00 Note 3
7	Nokia	3HE10161AA	NSP/NFM-P Software Release Subscription - Year 1							1	1				\$11,515.00 Note 4
8	Nokia	3HE10161AA	NSP/NFM-P Software Release Subscription - Year 2							1	1				\$11,515.00 Note 4
9	Nokia	3HE10161AA	NSP/NFM-P Software Release Subscription - Year 3							1	1				\$11,515.00 Note 4

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Maintenance Subtotal: \$68,229.00

### Notes:

- 1) Per the IP Router Service tab of Nokia's NASPO contract # 05715, the annual price for Maintenance Services for the 7705 SAR is a precentage of the total purchase price for the 7705 SAR equipment (hardware, software and all associated licenses). Since some of the 7705 SAR hardware to be deployed at Tiger Hill, Water Plant and Yonkers was purchased earlier without a maintenance contract, the total purchase price for 7705 SAR equipment is derived using the price quoted for a full 7705 SAR node at Pierce as a reference.
  - a) Per Note 1 on the 7705 SAR equipment tab, the equivalent total purchase price for the 5-node 7705 SAR system is determined to be \$69,109.25.
  - b) 7x24 Remote Technical Suport (RTS-Gold) and Standard Return for Repair service (RFR) are both calculated as 5% of the *total purchase price* for the 7705 SAR equipment. Furthermore, the minimum annual price for RTS-Gold is \$3,500.00 per network (\$5,833.00 @ 40% discount), and the minimum RES-RFR is \$3,750.00 per network (\$6,250.00 @ 40% discount).
  - c) The annual prices for RTS-Gold and RES-RFR are as follows. RES-RFR for the first year is covered under warranty.
  - + RTS-Gold: 5% of \$69,109.25 = \$3,455. Minimum annual fee of \$3,500 applies.
  - + RES-RFR: 5% of \$69,109.25 = \$3,455. Minimum annual fee of \$3,750 applies.
- 2) Software Subscription Plan for 7705 SAR is calculated as 2.5% of the total purchase price for the equipment (hardware, software and all associated licenses).
  - + SSP: 2.5% of \$69,109.25 = \$1,728
- 3) 7x24 Remote Technical Suport (RTS-Gold) for the NSP/NFM-P is calculated as 5% of the *total purchase price* for the NFM-P software, all associated licenses, and all equipment license points. Furthermore, the minimum annual price for RTS-Gold is \$3,500.00 for the base platform (\$5,833.00 @ 40% discount).
  - \$47,600.00 Qty 1, NSP 17: NFM-P Standard Base, P/N 3HE11799CA on Wagoner County purchase order # 001680





Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01

Ref: NASPO ValuePoint - 05715

Quoted by: LightSpeed Technologies

Sales Persor Scott Nelson

e-mail: SNelson@LightSpeedT.com

Tel: (972) 839-2641

Services: Maintenance - MPLS and NFM-P

**Detail:** Remote Technical Support, Repair and Exchange, Software Subscription

												ValuePoint	Discount	ValuePoint		
Item	Mfg.	Part Number	Description	Tiger Hill	<b>Water Plant</b>	Yonkers	Pierce	Coweta	Spares	Undistributed	Total	MSRP	%	<b>Unit Price</b>	Ext. Price	Notes
	\$2,793.00 Qty 42 @ \$66.50 each, NSP/NFM-P Standard License Points, P/N 3HE11801CA on Wagoner County purchase order # 001680															
	\$7,182.00 Qty 108 @ \$66.50 each, NSP/NFM-P Standard License Points, P/N 3HE11801CA for Wavence 9500 MPR and 7705 SAR in this Project															
		\$57,575.00	Total Purchase price of NFM-P and License Points for product	s being manag	ed											
		x 5%	6													
	\$2,879.00 Calculated Annual Price for RTS-Gold for NSP/NFM-P, per year. Minimum annual price of \$3,500 applies.															

4) Per Note 1 in the IP Router Service tab of Nokia's NASPO contract # 05715, SRS pricing is an annual fee and is 20% of the NSP product purchase price including base SW and all licenses points required the BU products being managed. Purchase Prices are derived as follows:

\$47,600.00 Qty 1, NSP 17: NFM-P Standard Base, P/N 3HE11799CA on Wagoner County purchase order # 001680

\$2,793.00 Qty 42 @ \$66.50 each, NSP/NFM-P Standard License Points, P/N 3HE11801CA on Wagoner County purchase order # 001680

\$7,182.00 Qty 108 @ \$66.50 each, NSP/NFM-P Standard License Points, P/N 3HE11801CA for Wavence 9500 MPR and 7705 SAR in this Project

\$57,575.00 Total Purchase price of NFM-P and License Points for products being managed

x 20%

\$11,515.00 Total Price for SRS for NSP/NFM-P, per year

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Project: Microwave Ring Closure 1+1 MHSB - UBT

Quote #: SN.191203AA.01 Ref: NASPO ValuePoint - 05715 Quoted by: LightSpeed Technologies

Sales Persoi Scott Nelson

e-mail: SNelson@LightSpeedT.com

Tel: (972) 839-2641

**Training: Equipment Operations & Maintenance** 

Configuration: Courses provided online or at Nokia EDU, as noted

Item	Mfg.	Part Number	Description	Duration	Туре	Level	Delivery	Location	Max # Students	Qty of Seats	NASPO ValuePoint MSRP	Discount %	NASPO ValuePoint Unit Price	Ext. Price	Notes
	Wavence 9500 MPR Microwave Packet Radio														
1	Nokia	RN00571-V-19	Wavence 19 UBT based Functional and HW description   RN00571-V-19	1 Day	THY	Standard	Instructor Led	Dallas	12		TBD	TBD	TBD	TBD	THY - Theoretical course
2	Nokia	RN00572-V-19	Wavence 19 UBT based Common functionality Web CT O&M $$   RN00572-V-19	1 Day	PTB	Advanced	Instructor Led	Dallas	8		TBD	TBD	TBD	TBD	PTB - Practical and theoretical course with testbed
3	Nokia	RN00014-V-19	Wavence 19 Ethernet traffic O&M   RN00014-V-19	2 Days	PTB	Advanced	Instructor Led	Dallas	8		TBD	TBD	TBD	TBD	PTB - Practical and theoretical course with testbed
		7705 SAR Service Aggr	regation Router												
9	Nokia	3HE09335AA- TER36084W	TER36084W 7705 SAR Product Overview	3 Hours		Advanced	Web-based	Online	1		\$494.00	65.0%	\$321.00	\$172.90	
		NSP / NFM-P Network	Services Platform / Network Functions Manager, Packet												
14	Nokia	3HE09335AA- TOS00059W	TOS00059W NSP (Network Services Platform) Overview (Online Class)	1 Hour		Standard	Web-based	Online	1		\$165.00	65.0%	\$107.00	\$57.75	
15	Nokia	3HE09335AA- TOS00060W	TOS00060W NFM-P (Network Functions Manager – Packet) Fundamentals (Online Class)	6 Hours		Advanced	Web-based	Online	1		\$988.00	65.0%	\$642.00	\$345.80	
16	Nokia	3HE09335AA- TOS00060	TOS00060 NFM-P (Network Functions Manager - Packet) Fundamentals	2 Days		Standard	Instructor Led	Dallas	8		\$4,154.29	65.0%	\$1,454.00	\$1,454.00	
17	Nokia	3HE09335AA- TOS00061	TOS00061 NSP (Network Services Platform) Fault Management Application	1 Day		Advanced	Instructor Led	Dallas	8		\$2,077.14	65.0%	\$727.00	\$727.00	
18	Nokia	3HE09335AA- TOS00062	TOS00062 NSP (Network Services Platform) Service Supervision Application	1 Day		Advanced	Instructor Led	Dallas	8		\$2,077.14	65.0%	\$727.00	\$727.00	
19	Nokia	3HE09335AA- TOS00063	TOS00063 NFM-P (Network Functions Manager - Packet) Network Troubleshooting using Fault Analysis	4 Days		Advanced	Instructor Led	Dallas	8		\$8,309.00	65.0%	\$2,908.00	\$2,908.15	
20	Nokia	3HE09335AA- TOS41001	TOS41001 NFM-P (Network Functions Manager - Packet) IP/MPLS Network Provisioning – Fundamentals	3 Days		Standard	Instructor Led	Dallas	8		\$6,231.00	65.0%	\$2,181.00	\$2,180.85	
21	Nokia	3HE09335AA- TOS41002	TOS41002 NFM-P (Network Functions Manager - Packet) IP/MPLS Network Provisioning – Resiliency	2 Days		Advanced	Instructor Led	Dallas	8		\$4,154.29	65.0%	\$1,454.00	\$1,454.00	
22	Nokia	3HE09335AA- TOS41003	TOS41003 NFM-P (Network Functions Manager - Packet) IP/MPLS Network Provisioning - Multi-Area Scaling	3 Days		Advanced	Instructor Led	Dallas	8		\$6,231.00	65.0%	\$2,181.00	\$2,180.85	
23	Nokia	3HE09335AA- TOS42101	TOS42101 NFM-P (Network Functions Manager - Packet) Service Operations and Provisioning – Fundamentals	2 Days		Standard	Instructor Led	Dallas	8		\$4,154.29	65.0%	\$1,454.00	\$1,454.00	
24	Nokia	3HE09335AA- TOS42102	TOS42102 NFM-P (Network Functions Manager - Packet) Service Operations and Provisioning - Enhanced OAM	3 Days		Advanced	Instructor Led	Dallas	8		\$6,231.00	65.0%	\$2,181.00	\$2,180.85	
25	Nokia	3HE09335AA- TOS42103	TOS42103 NFM-P (Network Functions Manager - Packet) Rel 17 Services Operation and Provisioning - Service Interconnection	2 Days		Advanced	Instructor Led	Dallas	8		\$4,154.29	65.0%	\$1,454.00	\$1,454.00	