R-706-2015 Original: R-507-2015 Contract #: 158-2015

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LEX	(INGTON-FAYETTE URBAN COUNTY	Date:	November 2, 2015	
GOVERNMENT CONTRACT CHANGE ORDER		Project:	PSOC Radio Tower	
	Page 1 of 2	Location:	115 Cisco Road	
	ctor): Airbus DS Communications	Contract No.	0507-2015	
	dent George Bush Hwy., Suite 150 ı, TX 75080	Original Contract Amt.	\$1,542,083.00	
		Cumulative Amount of Previous Change Orders	\$0.00	
		Percent Change - Previous Change Orders		0.00%
		Total Contract Amount Prior to this Change Order	\$1,542,083.00	
		Change Order No.	11	
,	You are hereby requested to comply with the following	changes from the contract plan	ns and specification;	
_	Current Cha	inge Order		
Item No.	Description of changes-quantities, unit prices, change in completion date, etc.	Decrease in contract price	Increase in contract price	
1 (Order heavier tower to accommodate antennas		\$17,688.00	
			IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	Total decrease	\$0.00		
7	Total increase		\$17,688.0 <u>0</u>	
	Net Amount of this Change Order	\$17,688.00		
I	New Contract Amount Including this Change Order	\$1,559,771.00		
F	Percent Change - This Change Order			1.139
F	Percent Change - All Change Orders			1.15%
The time	provided for the completion in the contract and a	ll provisions of the contract w	ill apply hereto.	
Recomm	ended by Dersk R Combine	(Proj. Engr.) Date_	11/2/15	
Accepted	by Deel	(Contractor) Date_	1 1 1 2	
Approved	d by Kapat Stage	(Director) Date_/	<u> 14/15</u>	
Approved	by K. Agotton	(Commissioner) D		
Approved	d by \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(Mayor or CAO) Da	te_12 3 15_	

		Page 2 of 2
		PROJECT: PSOC Radio Tower
•	JUSTIFICATION FOR CHANGE	CONTRACT NO. 0507-2015
		CHANGE ORDER: 1
1.	Chemical Stockpile Emergency Preparedne	olaced on the tower to support the Emergency Operations Center and ss Plan (CSEPP) will leave little capacity for additional antennas in the e for a heavier tower that will provide load capacity for additional
2.	Is proposed change an alternate	bid?Yes _X_No
3.	Will proposed change alter the pl	hysical size of the project?Yes _X_No
	If "Yes", explain.	
4.	Effect of this change on other pri	me contractors: N/A
5.	Has consent of surety been obtain	ned?Yes _X_Not Necessary
6.	Will this change affect expiration	or extent of insurance coverage?Yes _X_No
	If "Yes", will the policies be exten	ded?YesNo
7.	Effect on operation and maintena	ance costs: N/A
8.	Effect on contract completion dat	mayor Date

Original: R-507-2015 Contract #: 158-2015

AIRBUS DS Communications | home of VESTA*

PROJECT CHANGE NOTICE

To:

Lexington-Fayette Urban County Government

200 E. Main St., Room 313 Lexington, KY 40507

ATTN: Robert Stack, Director, Division of E911

CR Date:	October 26, 2015
CR#	LXP-001
Project Name:	Lexington PSOC
Purchase Order #:	LF00131163
Originator:	Robert Stack
Project Manager:	Greg Senter

DESCRIPTION OF CHANGE

Modify the PSOC tower and tower foundation to accommodate additional antenna loadings as specified by Mission Critical Partners

NEED & NECESSITY

The PSOC tower included in the contracted proposal was designed to accommodate 5 antennas (3 800 MHz omni antennas for P25 and 2 Microwave dishes) with 20% additional capacity. Mission Critical Partners has requested to install 6 additional antennas on the tower which reduces most of the remaining capacity of the tower. The proposed change will accommodate the additional antennas specified by Mission Critical Partners and provide the additional capacity still required for future needs.

IMPACTS

Technical Impact to Specifications, Performance or Operational Requirements:

Proposed designs for the original tower and redesigned tower are included as part of the attached file LXP_Tower_Comparison_2015OCT17.pdf

Impact on Project Schedule and Potential Mitigation Steps:

Delays associated with finalizing the tower and tower foundation design are impacting the project construction schedule by a day-for-day slip. The project team is working to maintain existing 2Q2016 project completion dates.

Impact on Project Cost and Potential Mitigation Steps:

\$17,688 cost impact to the LFUCG

Customer Acceptance Signature Approval:

Authorized by:

Printed name:

Date:

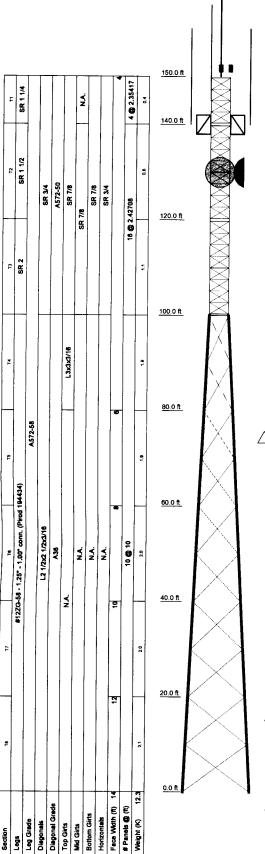
Airbus DS Communications Signature Approval:

Authorized by:

Printed name:

PROJECT CHANGE NOTICE

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DESIGNED APPURTENANCE LOADING

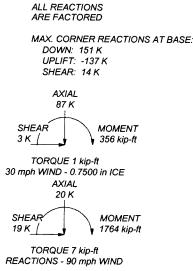
TYPE	ELEVATION	TYPE	ELEVATION	
21' LRE with 7'-6" lightning rod	150	6' Bogner Mount Standard Duty	140	
(arm=11.5')		BMR12	140	
Beacon	150	BMR12 (20% additional loading)	140	
Beacon	150	6' Bogner Mount Standard Duty (20%		
BMR12	150	additional loading)	140	
6' Bogner Mount Standard Duty	150	BMR12 (20% additional loading)	140	
TMA (12"x12"x8")	150	6' Bogner Mount Standard Duty (20%	140	
BMR12 (20% additional loading)	150	additional loading)		
6' Bogner Mount Standard Duty (20%	150 PAR6-59 w/o Radome		130	
additional loading)		PAR6-59 w/o Radome	130	
TMA (12"x12"x8") (20% additional loading)	150	PAR6-59 w/o Radome (20% additional loading)	130	
6' Bogner Mount Standard Duty	140	PAR6-59 w/o Radome (20% additional	130	
BMR12	140	loading)		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-58	58 ksi	75 ksi	A36	36 ksi	58 ksi
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

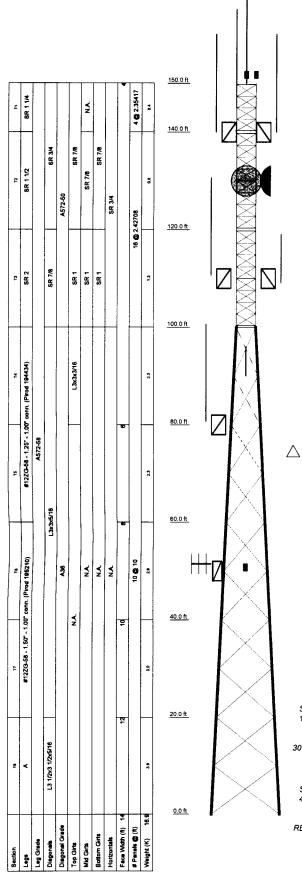
- 1. Tower is located in Fayette County, Kentucky.
- 2. Tower designed for Exposure C to the TIA-222-G Standard.
- 3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
- 4. Tower is also designed for a 30 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
- 5. Deflections are based upon a 60 mph wind.
- Tower Structure Class III.
 Topographic Category 1 with Crest Height of 0.00 ft
 TOWER RATING: 88.7%



Discourse Discou **almont** Project: U-14 x 150' - Fayette County, KY

Client: Tower Systems, Inc.

Drawn by: CRF1 1545 Pidco Drive Client: Tower Systems, Inc. App'd: STRUCTURES Plymouth, IN 46563 Code: TIA-222-G Scale: NTS Date: 06/17/15 Valmont Structures, Inc. - Specialty Structures Group Phone: (574) 936-4221 FAX: (574) -936-6458



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
21' LRE with 7'-6" lightning rod (arm=11.5')	150	6' Pivot Side Arm (50" pipe)	110
Beacon	150	Diamond X200A (20% Additional Load)	110
Beacon	150	6' Pivot Side Arm (50" pipe) (20%	110
BMR12	150	Additional Load)	L
6' Bogner Mount Standard Duty	150	ANT135F2	90
TMA (12"x12"x8")	150	6' Pivot Side Arm (50" pipe)	90
BMR12 (20% additional loading)	150	ANT135F2 (20% Additional Load)	90
6' Bogner Mount Standard Duty (20% additional loading)	150	6' Pivot Side Arm (50" pipe) (20% Additional Load)	90
TMA (12"x12"x8") (20% additional loading)	150	ANT150F6 -138-151 MHZ	80
6' Bogner Mount Standard Duty	140	6' Pivot Side Arm (50" pipe)	80
BMR12	140	ANT150F6 -138-151 MHZ (20% Additional	80
6' Bogner Mount Standard Duty	140	Load)	
BMR12	140	6' Pivot Side Arm (50" pipe) (20% Additional Load)	80
BMR12 (20% additional loading)	140		
6' Bogner Mount Standard Duty (20% additional loading)	140	Buckmaster Center Insulator 10' Standoff	50
BMR12 (20% additional loading)	140	Rope	50
6' Bogner Mount Standard Duty (20%	140	Rope	50
additional loading)		Buckmaster Center Insulator (20%	50
PAR6-59 w/o Radome	130	Additional Load)	
PAR6-59 w/o Radome	130	10' Standoff (20% Additional Load)	50
PAR6-59 w/o Radome (20% additional	130	Rope (20% Additional Load)	50
loading)		Rope (20% Additional Load)	50
PAR6-59 w/o Radome (20% additional	130	101108-1	50
loading)		3' Pivot Side Arm (50" pipe)	50
ANT150F6 -138-151 MHZ	110	101108-1 (20% Additional Load)	50
6' Pivot Side Arm (50" pipe)	110	3' Pivot Side Arm (50" pipe) (20%	50
ANT150F6 -138-151 MHZ (20% Additional Load)	110	Additional Load)	
<u> </u>		1/2 of V Antenna	50
6' Pivot Side Arm (50" pipe) (20% Additional Load)	110	1/2 of V Antenna	50
Diamond X200A	110	1/2 of V Antenna (20% Additional Load)	50
Jianiona Azoon	110	1/2 of V Antenna (20% Additional Load)	50

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	#12ZG-58 - 1.75" - 1.00" connTR1-(Pirod 195214)		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-58	58 ksi	75 ksi	A36	36 ksi	58 ksi
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

- Tower is located in Fayette County, Kentucky.
 Tower designed for Exposure C to the TIA-222-G Standard.
 Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
 Tower is also designed for a 30 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with beinty. thickness with height.

- Interfess with neight.

 Deflections are based upon a 60 mph wind.

 Tower Structure Class III.

 Topographic Category 1 with Crest Height of 0.00 ft.

 TOWER RATING: 91.5%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 250 K UPLIFT: -222 K SHEAR: 28 K

AXIAL 117 K

SHEAR'

10 K

MOMENT 636 kip-ft

TORQUE 19 kip-ft 30 mph WIND - 0.7500 in ICE

AXIAL 33 K SHEAR MOMENT 40 K___ 2918 kip-ft

TORQUE 139 kip-ft REACTIONS - 90 mph WIND



1545 Pidco Dr. Plymouth, IN almont Industries, Inc. - Specialty Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458

	^{job:} Quotation 295734-0)2	
	Project: U-14 x 150' - Fayette		
	Client: Tower Systems, Inc.	Drawn by: JAK	App'd:
ı	Code: TIA-222-G Date: 10/12/15		Scale: NTS
	Path:		Dwg No. E-1