

# Addendum #1

## REQUEST FOR BIDS

For

### Purchase and Installation of Three Base Station Radio Replacements for Emergency Services

DATE REQUEST FOR BIDS ISSUED April 12, 2021

**This Request for Bids (RFB) shall be distributed by the Sweet Grass County Clerk and Records Office only. All copies must be obtained from the Clerk and Records Office at [sgclerk1@itstriangle.com](mailto:sgclerk1@itstriangle.com) and all Bids must be submitted to the Sweet Grass County Clerk and Records Office.**

*20. **Addendum.** If the County receives any questions concerning the meaning or intent of this RFB it will issue an addendum. Answers to questions considered necessary will be in the form of an Addenda mailed or delivered to all parties who had requested a copy of this RFB. Questions received less than ten (10) days prior to the date for opening of the Bids may not be answered. Only questions answered by an Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.*

*Any addenda issued are binding on this Project and will become part of any executed contract. Each Submitter must acknowledge they received a copy each addendum or the Bid will be rejected as incomplete.*

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**Question / Issue #1:** Does the equipment need to be mission critical?

**Response #1:** Yes, the equipment is for emergency services and needs to be mission critical rating.

**Question / Issue #2:** Need to confirm if these need to be 50 watt Medium power or 100/110 watt High Power?

**Response #2:** The base station replacements are 100/110 watt High Power.

**Question / Issue #3:** Do these need to be P25 capable or P25 ready?

**Response #3:** The base station replacements need to be P25 ready. This is funded with Federal grant funds and P25 will be required.

**Question / Issue #4:** Can you provide frequencies used in these radios?

**Response #4:** Yes, a list of licensed frequencies will be attached.

**Question / Issue #5:** Does this "Request For Bids" include a redundancy / backup system along with the 3 base station replacement?

# Addendum #1

**Response #5:** Yes, in addition to the replacement of the 3 base stations, the bid request will include equipment needed to link the Sheriff's Office PSAP to both Tin Can Hill repeater site and Greycliff Repeater site as a redundant / backup system.

**Question / Issue #6:** Can you provide more information as to type of scrambler technology used?

**Response #6:** Because this is federally grant funded, the standard will be AES. I am not familiar with the actual encryption algorithm used in this system today.

**Question / Issue #7:** Need to confirm if these are base radios or repeaters?

**Response #7:** The 3 Base station replacements are base radios.

**Question / Issue #8:**

3 VHF Base station replacements.

- If Repeaters do you have existing antenna combiners or duplexers?

4 High Gain Antennas

- There are many types of base antennas which vary in cost. Do you have a detail spec if your antenna design will be for a fiberglass or a dipole type antenna and how much gain you need?
- There are 4 antennas listed and 3 radios. What is plan for the 4th antenna
- Can you provide current antenna heights or and idea of how much cable is needed at each location?
- o On antenna cable do you have a spec on what type of cable? LMR-400, LMR-600 or Helaix ?

4 Gateways

- Can you provide more information on type of Gateway?
- Will these radios be controlled by 2w/4w or VoIP/RoIP?
- What type of control links will be used to control the radios/ Gateways?
- There are 4 gateways and 3 radios?

**Response #8:** I am unable to provide answers to these questions. I would offer an on-site visit invitation to allow a qualified technician the ability to verify the answers to these questions and to determine the needed equipment.

Clifford Brophy, DES  
4-26-2021 

**Attachment 4: Radio Communications: Frequencies and Usage**  
 (All Frequencies are in MHz)

<b>SWEET GRASS COUNTY PUBLIC RADIO FREQUENCIES</b>
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<b>NAME/LOCATION</b>	<b>RECEIVE</b>	<b>RX TONE</b>	<b>TRANSMIT</b>	<b>TX TONE</b>
LAW West	154.8000	100.0	158.7300	100.0
LAW East	154.1750	156.7	159.1800	156.7
FIRE West	154.2200	100.0	159.1350	100.0
FIRE East	151.1150	100.0	159.2700	100.0
SGC West	154.0400	100.0	155.8050	100.0
SGC East	151.4300	107.2	156.2400	107.2
Law Tac	155.6250	100.0	155.6250	100.0
Portable Repeater #1	158.8500	141.3	153.8600	141.3
Monument Repeater	154.9800	100.0	158.8950	100.0
RED	154.0700		154.0700	
GOLD	153.9050		159.9050	
PINK	153.3850		153.3850	
MAROON	154.2800		154.2800	
PURPLE	155.2200		155.2200	
WHITE	155.2800		155.2800	

ULS License

Public Safety Pool, Conventional License - KNIA830 - SWEET GRASS, COUNTY OF

**Frequencies Summary**

Call Sign                      KNIA830    Radio Service                      PW - Public Safety Pool,  
Conventional

27 Frequencies for all locations  
20 Frequencies per Summary Page

**SC** = Special Condition    **TP** = Termination Pending

Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Rec.	Output Power	Maximum ERP
000153.86000000	3	1	4	FX1	6		110.000	135.000
000153.86000000	8	1	1	MO	40		45.000	90.000
000154.04000000	1	1	1	FB2	1		110.000	35.000
000154.04000000	2	1	1	FB	1		110.000	135.000
000154.04000000	4	1	1	MO	40		110.000	110.000
000154.07000000	8	1	5	MO	40		100.000	100.000
000154.80000000	1	1	5	FB	1		110.000	135.000
000154.80000000	1	1	4	FB2	1		110.000	135.000
000154.80000000	2	1	4	FB	1		110.000	135.000
000154.80000000	8	1	3	MO	40		110.000	135.000
000154.98000000	5	1	1	FB2	1		20.000	33.000
000155.28000000	6	1	1	FB	1	20	100.000	135.000
000155.38500000	6	1	2	FB	1	20	100.000	135.000
000155.80500000	1	1	2	FB	1		110.000	35.000
000155.80500000	2	1	2	FB	1		110.000	135.000
000155.80500000	4	1	2	MO	40		110.000	110.000
000155.82000000	1	1	3	FB	1		110.000	35.000
000155.82000000	2	1	3	FB	1		110.000	135.000
000155.82000000	3	1	1	FX1	6		110.000	110.000
000155.82000000	4	1	3	MO	40		110.000	110.000

27 Frequencies for all locations  
20 Frequencies per Summary Page



Uls License

Public Safety Pool, Conventional License - KNIA830 - SWEET GRASS, COUNTY OF

# Frequencies Summary

Call Sign: KNIA830 Radio Service: PW - Public Safety Pool, Conventional

27 Frequencies for all locations  
20 Frequencies per Summary Page

SC = Special Condition TP = Termination Pending

Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Rec.	Output Power	Maximum ERP
000158.73000000	2	1	5	FB	1		110.000	135.000
000158.73000000	3	1	3	FX1	6		110.000	135.000
000158.73000000	8	1	4	MO	40		110.000	135.000
000158.85000000	7	1	1	FB2T	1		50.000	100.000
000158.85000000	8	1	2	MO	40		45.000	90.000
000158.89500000	3	1	2	FX1	6		110.000	135.000
000158.89500000	9	1	1	MO	100		45.000	90.000

27 Frequencies for all locations  
20 Frequencies per Summary Page

ULS License

Public Safety Pool, Conventional License - KNIA830 - SWEET GRASS, COUNTY OF

**Locations Summary**

Call Sign	KNIA830	Radio Service	PW - Public Safety Pool, Conventional
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**9** Total Locations  
10 Locations per Summary Page

**SC** = Special Condition    **TP** = Termination Pending

Location	Transmitter Address /Area of Operation	Latitude, Longitude	Status
1 - Fixed	10 KM NORTH BIG TIMBER, MT SWEET GRASS County	45-53-06.8 N, 109-51-07.7 W	
2 - Fixed	COUNTY COURTHOUSE BIG TIMBER, MT SWEET GRASS County	45-56-00.8 N, 109-56-03.7 W	
3 - 6.1 meter control station	MT		
4 - Mobile	40.0 km radius around a fixed location 1		
5 - Fixed	73.5 KM S OF BIG TIMBER, MT SWEET GRASS County	45-12-15.3 N, 110-13-30.0 W	
6 - Fixed	1.6KM SE BIG TIMBER, MT SWEET GRASS County	45-48-41.8 N, 109-58-26.7 W	
7 - Temporary Fixed	SWEET GRASS County, MT		
8 - Mobile	SWEET GRASS County, MT		
9 - Mobile	40.0 km radius around a fixed location 5		

**9** Total Locations  
10 Locations per Summary Page

ULS License

**Public Safety Pool, Conventional License - WQJF245 - SWEET GRASS,  
COUNTY OF**

Call Sign	WQJF245	Radio Service	PW - Public Safety Pool, Conventional
Status	Active	Auth Type	Regular
<b>Dates</b>			
Grant	08/23/2018	Expiration	08/18/2028
Effective	08/23/2018	Cancellation	
<b>Control Points</b>			
1	SWEET GRASS CTY COURTHOUSE, SWEET GRASS, BIG TIMBER, MT P: (406)932-2565		

**Licensee**

FRN	0006817704	Type	Governmental Entity
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**Licensee**

SWEET GRASS, COUNTY OF P.O. Box 567 200 WEST 1ST STREET BIG TIMBER, MT 59011 ATTN Brooke Johnson	P:(406)932-3011 F:(406)932-3026 E:sgdes@sweetgrass.mt.us
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**Contact**

SWEET GRASS COUNTY 911 Brooke Johnson P.O. Box 567 200 W 1ST STREET BIG TIMBER, MT 59011-0567 ATTN 911 Coordinator	P:(406)932-3011 F:(406)932-3026 E:sgdes@co.sweetgrass.mt.us
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**Land Mobile Data**

Extended Implementation (Slow Growth)	Assoc.Call Signs
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**Eligibility**

90.20a - RADIOS WILL BE USED FOR OFFICIAL LAW ENFORCEMENT COMMUNICATIONS

**Ownership and Qualifications**

Radio Service Type	Mobile		
Regulatory Status	Private Comm	Interconnected	No

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race

ULS License

Public Safety Pool, Conventional License - WQJF245 - SWEET GRASS, COUNTY OF

# Frequencies Summary

Call Sign **WQJF245** Radio Service PW - Public Safety Pool, Conventional

31 Frequencies for all locations  
20 Frequencies per Summary Page

**SC** = Special Condition **TP** = Termination Pending

Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Rec.	Output Power	Maximum ERP
000151.11500000	1	2	1	FB2	1		110.000	100.000
000151.11500000	4	1	2	MO	150		100.000	100.000
000151.31000000	3	1	4	FB	1	110	110.000	100.000
000151.43000000	1	3	1	FB2	1		110.000	100.000
000151.43000000	4	1	3	MO	150		100.000	100.000
000153.90500000	<b>SC</b> 3	2	1	FB	1		110.000	100.000
000154.04000000	3	1	1	FB	1		110.000	100.000
000154.17500000	1	1	1	FB2	1		110.000	100.000
000154.17500000	4	1	1	MO	150		100.000	100.000
000154.22000000	2	1	1	FB2	1		110.000	100.000
000154.22000000	4	1	5	MO	150		100.000	100.000
000154.71000000	4	1	8	MO	150		100.000	100.000
000154.80000000	3	1	2	FB	1		110.000	100.000
000155.14500000	2	2	1	FB2	1		110.000	100.000
000155.14500000	4	1	6	MO	150		100.000	100.000
000155.19000000	1	4	1	FB2	1		110.000	100.000
000155.19000000	4	1	4	MO	150		100.000	100.000
000155.62500000	4	1	7	MO	150		100.000	100.000
000155.79000000	3	1	3	FB	1		110.000	100.000
000156.24000000	4	1	10	MO	150		100.000	100.000

31 Frequencies for all locations  
20 Frequencies per Summary Page



ULS License

Public Safety Pool, Conventional License - WQJF245 - SWEET GRASS, COUNTY OF

**Frequencies Summary**

Call Sign

WQJF245

Radio Service

PW - Public Safety Pool,  
Conventional31 Frequencies for all locations  
20 Frequencies per Summary Page

[SC] = Special Condition [TP] = Termination Pending

Frequency	Loc#	Ant#	Freq ID	Station Class	Units	Paging Rec.	Output Power	Maximum ERP
000156.24000000	5	1	3	FX1	10		50.000	100.000
000159.00000000	4	1	11	MO	150		100.000	100.000
000159.00000000	5	1	4	FX1	10		50.000	100.000
000159.12000000	4	1	12	MO	150		100.000	100.000
000159.12000000	5	1	5	FX1	10		50.000	100.000
000159.13500000	4	1	13	MO	150		100.000	100.000
000159.13500000	5	1	6	FX1	10		50.000	100.000
000159.18000000	4	1	9	MO	150		100.000	100.000
000159.18000000	5	1	1	FX1	10		50.000	100.000
000159.27000000	4	1	14	MO	150		100.000	100.000
000159.27000000	5	1	2	FX1	10		50.000	100.000

31 Frequencies for all locations  
20 Frequencies per Summary Page

## ULS License

Public Safety Pool, Conventional License - WQJF245 - SWEET GRASS, COUNTY OF

**Locations Summary**

Call Sign **WQJF245** Radio Service PW - Public Safety Pool,  
Conventional

**5 Total Locations**

10 Locations per Summary Page

**SC** = Special Condition    **TP** = Termination Pending

Location	Transmitter Address /Area of Operation	Latitude, Longitude	Status
1 - Fixed	9.4 KM ENE GREY CLIFF, MT SWEET GRASS County	45-47-34.4 N, 109-40-13.9 W	
2 - Fixed	9.8 KM NE BIG TIMBER, MT SWEET GRASS County	45-53-06.8 N, 109-51-07.7 W	
3 - Fixed	1.6KM SE BIG TIMBER, MT SWEET GRASS County	45-48-39.7 N, 109-58-32.0 W	
4 - Mobile	SWEET GRASS County, MT		
5 - 6.1 meter control station	SWEET GRASS County, MT		

**5 Total Locations**

10 Locations per Summary Page