Application for Frequency Coordination

T-MARC provides a service of frequency coordination in the AmateurVHF and UHF bands for repeaters, control frequencies, links and other FM systems. however, since participation is voluntary and not all Amateurs are aware of this service, T-MARC cannot guarantee interference-free use of any frequency. We will provide technical assistance to solve interference problems and establish lines of communications between the stations involved.

In order to enable the T-MARC Frequency Coordinating Committeeto coordinate frequencies for your operation, we ask that you supply us with the following information. We need as much information as possible to do the job properly. This information is for the purpose of effecting coordination only, and is not made available nor intentionally published without your consent. Please complete the entire form if you are coordinating a repeater. If you are only changing some information, please give sufficient identification that the repeater can be identified . Please answer all questions appropriate to your request. If you need assistance in completing these forms, please feel free to contact any member of the Frequency Coordinating Committee.

To accomplish effective frequency coordination, it is sometimes necessary to recommend the use of coded access, directional antennas,or limited E.R.P. in order to cover only the desired Service Area.Of course, this is done as a last resort. Thank you for cooperating in the coordinating process.

Name   EASTERN PANHANDLE ARC   (Required)
Email Address: ~~9858 Childacres~~ K8EP @ ARRL.NET (Required)
Address 1 9358 Childacrest Dr.   (Required)
Address 2   (Required)
City Boonsboro   (Required)
State MD   Zip Code 21713   (Required)
Callsign K8EP
Alternate Address
Address 1
Address 2
City
State   Zip Code
Home Phone   Work Phone   Cell Phone
Packet Address;

☐ New Application   ☒ Change of existing information

Sponsor [Club or Individual]

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(Change of sponsor requires approval by the T-MARC membership at a membership meeting)

General Information

Type of Station: Repeater : _X_ Replexer :___Remote Base:___

Associated repeater transmit frequency____224.28___ Mhz, if remote base is part of a repeater system.
System Type:___SingleSite _X_Multi Site

Coordinating Committee Data

Preferred band_____other_frequency ____MHz.

*If you are requesting 2-meter frequencies and no suitable recommendations can be found, would you accept a recommendation on another Amateur band? _____
_____MHz

Preferred frequencies: First Choice _____MHz
Second Choice _____MHz.

List any unusual circumstances, non-standard frequencies, co-site user problems , location pecularities, or other information which might affect the coordination recommendation:

Repeater Directory Information

___X_Check here to omit this listing from the repeater directory
This information is published primarily for the benefit of visitors to the area who are unfamiliar with the systems available.

Callsign _____/R
Your sponsor's name, call or co-sponsor's call (max. 10 char.) _____
Nearest metropolitan area (max. 18 char.) or county _____
Transmitter city (max. 14 char.) _____

Features

Access: _____(Highly recommended) _____Hz.
Autopatch: _____If open, autopatch Code=_____
___Long Tone Zero ____RACESor ARES Affiliated ____DataTransmission welcome
____Experimental System
____Link available to these systems

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Other features (see list in the A.R.R.L. "Repeater Directory "

Technical Data Survey

Please complete one T.D.S. for each transmitter
Transmitter Site Information

Location _Braddock Mountain_

City _Frederick_ County _Frederick_ State _MD_ ZIP _____
Coordinates: _39_ Deg _25_ Min _6.1_ Sec North Latitude by _77_ Deg _30_ Min _8.6_ Sec
West Longitude

Site ground elevation _898_ feet Above Mean Sea Level.

Transmitter Details

Callsign _K8EP_ Band, if new; Frequency, if updating _~~3~~440_ MHz.
Use: _Link from remote Receiver_ Bandwidth _5_ kHz.

Antenna Details

Height Above Ground Level in feet (H.A.G.L.) _18_ Height Above Average Terrain

Pattern:

_275.6°_ Beam, main lobe bearing/Cardioid, major null bearing _____ degrees
E-wave polarization: _Horiz_

Effective Radiated Power (E.R.P.) Worksheet

Transmitter system gain

Antenna gain _~~#~~11.3_ dBd(db over dipole) = Transmitter system gain

Transmitter system loss

Transmission Line Loss _1.0_ + Duplexer insertion loss _—_ dB = Transmitter system
loss

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ERP = Transmitter output power __10__ dBW _11.3_ + System Gain _1.0_ - System Loss
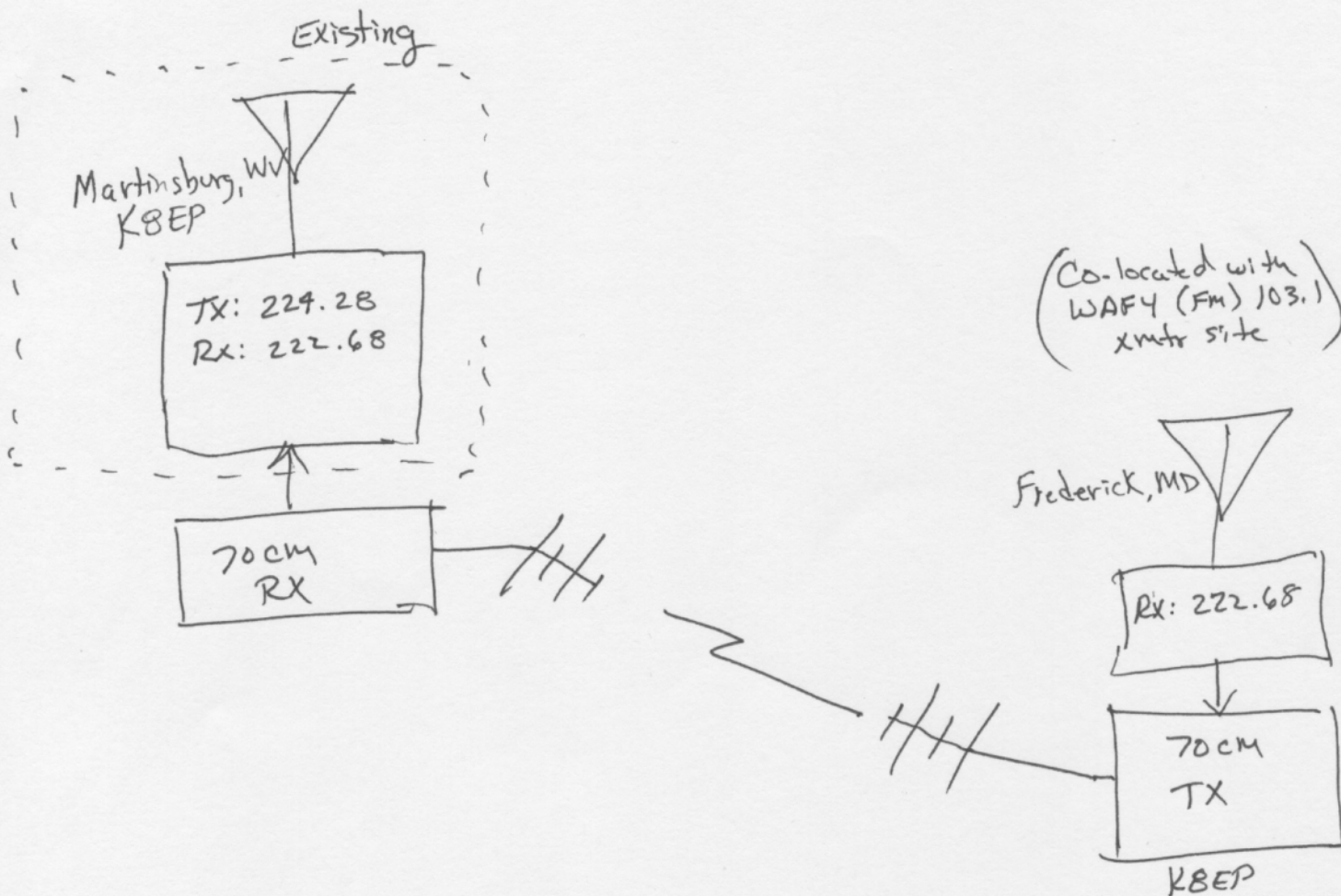____dB $= +20.3 \, dBW$

Optional We can calculate line loss for you given the cable type and length.
Cable Type _____ **Length** _____ feet

Height Above Average Terrain (H.A.A.T.)

We will calculate this for you.

_____

Propsed System Diagram

Existing

Martinsburg, WV
K8EP

TX: 224.28
Rx: 222.68

70 CM
RX

(Co-located with
WAFY (FM) 103.1
xmtr site)

Frederick, MD

Rx: 222.68

70 CM
TX

K8EP

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