

Our Dubois County
147.195 MHz Repeater
Update



BACKGROUND

Our Repeater is a RACES Repeater & is Owned, Operated, & Administered by the Dubois County EMA





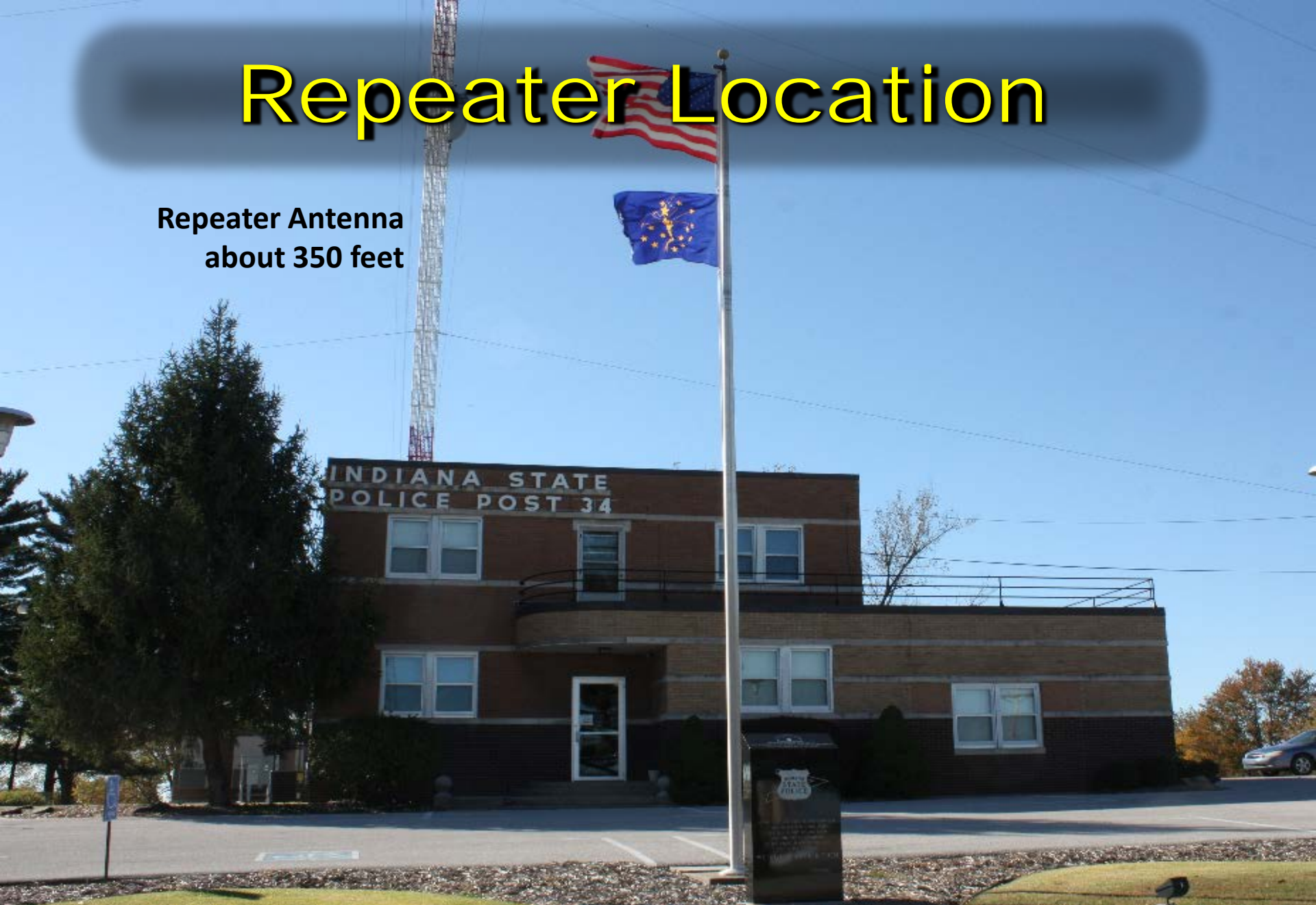
BACKGROUND

The Dubois County EMA makes ALL decisions, in coordination with our staff, regarding changes to and usage of our repeater



Repeater Location

Repeater Antenna
about 350 feet



Dubois County Emergency Management Agency





- Normally our repeater remains open for ALL amateur radio operators to use
- Our new repeater will ALWAYS support FM/Analog along with new C4FM digital
- Users are FREE to use it in whatever mode they choose





- **However, when Dubois County EMA activates the repeater for emergency or priority traffic (i.e. RACES, Skywarn)**
 - **All other users are expected to stand down while emergency or priority communications are conducted by EMA personnel**





After a couple year of planning,
**Our repeater was recently
upgraded to new Yaesu System
Fusion DR2X repeater to better
support our communications**



We've had issues trying to reliably copy some of our weather spotters, especially on windy days





The New DR-2X:

- ✓ *Supports Analog FM*
- ✓ *Supports Noise-Free C4FM Digital*
- ✓ *Automatic Mode Select*



Digital



ADVANTAGES

Superb Quality Audio!

- ✓ HIGH QUALITY NOISE FREE COMMUNICATIONS *across the ENTIRE Range of the Repeater!*
- ✓ *Resistance to Interference*

DIGITAL IS ALL OR NONE
Crystal Clear Audio

THERE IS NO NOISY IN BETWEEN!

System Fusion
YAESU

Our New 147.195 MHz Yaesu System Fusion Repeater Demonstration

Weather spotter
reporting in on FM
(HT in Ferdinand)



Our New 147.195 MHz Yaesu System Fusion Repeater Demonstration

We've done EXTENSIVE
testing to confirm the
MASSIVE improvement
achieved using
C4FM/Digital





ADVANTAGES

The new DR2X repeater operating
C4FM/Digital has FINALLY
resolved our SERIOUS
noise issues



Standard Operating Procedures
for our 147.195 MHz Repeater

*Both FM/Analog and
C4FM/Digital are available for
everyone to use*

*We have absolutely NO plans of
EVER getting rid of FM*

During Day-to-Day Operations

- *Our repeater is OPEN* to *All* amateur radio operators to use
- FM and/or C4FM can be used at the discretion of the operators

Skywarn Operations

- Analog FM will **continue** to be used prior to the arrival of storms in Dubois County
- **When strong to severe storms are a threat to Dubois County** and a warning is anticipated or has occurred, **C4FM** will be used by **DUBOIS COUNTY EMA** to communicate with our **LOCAL** EMA spotters
- **Based on estimated 15 severe weather events per year (1 hour per) we would be using C4FM 15 hours total per year (0.17%) for Skwarn**



When Dubois County is under a **warning** and conducting a Skywarn Net, we are focused on Dubois County spotter reports only

- **SEVERE WEATHER REPORTS**
- **STORM DAMAGE REPORTS**

During EMA/RACES Operations

- Analog/FM will continue to be used most of the time
- Dubois County EMA may choose to use C4FM when appropriate to communicate with LOCAL EMA/RACES personnel during critical operations

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Dubois County Skywarn

When severe weather threatens our area, stay ahead of the storm by tuning into the Dubois County EMA Skywarn Radio Feed! Operated by trained weather spotters under the Dubois County RACES Team and EMA, this network provides real-time severe weather re

Amateur Radio

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HTML5 Web Player



Online

ALL DUBOIS COUNTY EMA
RACES & SKYWARN UNITS
NOW HAVE C4FM RADIOS!!!!

AWESOME!

!



The migration of our CRITICAL EMA
RACES/Skywarn LOCAL Communications
to C4FM Digital is COMPLETE!

AWESOME! !



You will likely only VERY occasionally hear
Dubois County EMA using C4FM/Digital