INCIDENT BRIEFING (ICS 201) REV-2 DRAFT 3

NORTH FLORIDA AMATEUR RADIO CLUB (NF4AC)

2020 ARRL FIELD DAY

ALACHUA COUNTY EMERGENCY OPERATIONS CENTER (EOC)

1. Incident Name: NF4AC 2. Incident Number: 3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am

4. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines, or other graphics depicting situational status and resource assignment):

The 1,000 Foot Diameter Operating (white) Circle per ARRL Field Day Rules includes:

- EOC Radio Room in Station #1 (inside Southeast building)
- RV Trailer Station #2 (orange zone)
- PIO/Demo/GOTA Station #3 (yellow zone)
- Satellite Comms Station #4 (green zone)
- Porta-Potty (blue zone)



1. Incident Name: NF4AC

2020 Field Day

2. Incident Number:

3. Date/Time Initiated:

Date: June 27, 2020 Time: 8:00am

Expanded View of Northwest Area shows positions of Gordon's RV Station #2 (orange zone), Public Information GOTA Station #3 (yellow zone), and the Satellite Communications Station #4 (green zone). Please note that we walked this area and noted the large tree between the green and orange zones is sparse.

One Porta-Potty (blue zone) will be brought in for this event to be located southwest of the PIO/GOTA Station #3 for easy public access. The RV trailer has a restroom as well.

A Solar PV Generator / Battery Charging Station (on a trailer or truck bed) shall be setup in the Parking Area outside the NW Area. Additional Solar PV generating/charging station(s) can be setup as needed provided they are checked for EMI/RFI emissions effecting radio operations.



1. Incident Name: NF4AC	2. Incident Number:	3. Date/Time Initiated:
2020 Field Day		Date: June 27, 2020 Time: 8:00am

5. Situation Summary and Health and Safety Briefing (for briefings or transfer of command): Recognize potential incident Health and Safety Hazards and develop necessary measures (remove hazard, provide personal protective equipment, warn people of the hazard) to protect responders from those hazards.

2020 ARRL FIELD DAY

At approximately 8am Saturday morning, teams shall arrive to setup Radio Stations and associated equipment. Please review the schedules included herein. We hope to have setup done by 11 AM and then relax and get lunch elsewhere before the start of operations. Teardown operations shall commence Sunday on or before 2pm the official end of the contest.

Due to COVID-19, everyone should attempt social distancing, and also use facial masks whenever possible and follow any other advice from the Safety Officer. We will limit groups to 10, keep everyone spaced out, and try to wipe anything that we have to have many people use. Please review the Field Day rules packet; this will avoid a lot of questions having to be answered multiple times.

We will try to operate the normal EOC Station #1 with up to 150 watts output, on Digital, CW and SSB Voice on ARRL Field Day Operating Bands per attached schedule to be monitored and controlled by Operations.

We expect to be able to also operate an RV trailer Station #2 in the northwest corner of the compound, using an end-fed antenna (or alternate center fed) supported by its mast and/or trees there – shooting for about 35 feet up. The RV trailer with AC will be powered by roughly 4kw conventional generator, consuming about 3/4-1 gallon per hour.

We expect to be able to operate a demonstration PIO/GOTA Station #3, <u>Call Sign NF4RC</u>, under a canopy with at least the Shelter Go-Box to show to any authorities who are interested. That may be our 'free VHF/UHF station'

We expect to be able to operate a 2nd "free" Satellite Station #4 operating on VHF/UHF bands. This does not change our Class 2F (2 transmitters max simultaneously other than the two freebie stations) so will need to coordinate when satellite and other stations operate on VHF/UHF bands.

A Field Day Band Plan Schedule is provided in the Attachments that shows each of the four stations operating bands, modes, and frequency range in (12) 2-hour increments monitored and controlled by Operations during the event. Changes by any station to move to a different band shall be coordinated with the Operations Chief to prevent stepping on each other's transmission. The Operations Chief shall communicate all band plan scheduling changes to all (4) stations as they occur. Each team shall be responsible for recording these on a hard-copy of the attachment.

We will use the standard N3FJP Networked Logging Software, and expect to link the computers using TCP/IP either over a dedicated ham radio microwave (ubiquity, 2.397 GHz, 5 MHz bandwidth) or using the GUEST network if we can connect to it from the trailer.

We expect to commence operations for points at 2PM Saturday and the emphasis will be on FUN and if we don't have all the stations operating all the time – that's ok! Learning and fun are prime objectives.

We are trying to develop bandpass filter that will improve our ability to operate on nearby bands during the night. The EOC station will tend to have less noise on 40 meters and 30 meters we expect.

We plan to have considerable ADVANCED TESTING so that on the Field Day weekend there is NOT a wild push. The testing should include REAL OPERATIONS.

1. Incident Name: NF4AC 2020 Field Day	2. Inc	cident Number		Date/Time Initiated: te: June 27, 2020 Time: 8:00am
	-			
6. Prepared by: Name:	ohn Trites, NO5X	Position/Title:	Planning Chief	Signature:
ICS 201, Page 2 – 5			Date/Time:	

INCIDENT BRIEFING (ICS 201)

1. Incident Name: NF4AC	2. Incident Number:	3. Date/Time Initiated:
2020 Field Day		Date: June 27, 2020 Time: 8:00am

7. Current and Planned Objectives: setup the following Communications Stations for a 2F Class 2020 ARRL Field Day Event, with free PIO/GOTA and Satellite stations at the Alachua County Sherriff's Office and Emergency Operations Center (EOC) grounds.

<u>Class 2F Station #1:</u> EOC Primary Radio Room shall include a new ICOM 7300 Radio, LDG1000 Pro II Tuner, 12VDC Power Supply, 12V Battery emergency power, approximately 400 feet of LMR400 and 100 feet of RG-8X coaxial feedline, and a 160m to 10m Off Center Fed (OCF) Dipole Antenna located south of the EOC's fence line and optional SB-200 Amplifier providing 150 Watts output.

Class 2F Station #2: Gordon's RV located in the Northwest Map orange color area shall include an ICOM 746Pro and ICOM 725Radio, 600 watt LDG Auto-Tuner, SB200amplifier, low-noise Power Supply, 12V Battery emergency power, approximately 50 feet of RG8X coaxial feedline, and a 130 foot end-fed 49:1 balun Antenna near the RV. Multiple 1:1 Common Mode choke/un-un will be used on the feedline close to the radio. The station shall be powered by 4kW gasoline conventional generator and optional SB-200 Amplifier providing 150 Watts output.

<u>PIO/GOTA Station #3:</u> Canopy(s) located in the Northwest Map yellow area shall include a SHELTER GO BOX Radio, 12V Battery emergency power [AGM from the EOC stock], approximately 20 feet of RG8X coax, and some type of VHF/UHF antenna nearby. We will try to add a Signalink to the Go-Box equipment for Digital Winlink communication messages.

Satellite Station #4: Canopy(s) located in the Northwest Map yellow area shall include an ICOM 706MKIIG and YAESU FT-817 Radios, 12VDC Power Supply(s), 12V Battery emergency power, approximately 50 feet of coaxial feedline, (2) VHF/UHF Antenna(s) hand-held and/or mounted to a tri-pod.

8. Current and Planned Actions, Strategies, and Tactics: Time: Actions: Measure microwave path loss to the trailer area (Operations & Planning) Test N3FJP Field Day Logging software on two laptops (uses port 1000) on the Guest network 4 weeks in advance Discuss having the emergency generator tested during the Field Day period, so that we don't have to run the EOC station from batteries.... Measure the noise level on the EOC antenna using Spectrum analyzer (Gibby) ☐ Procure the necessary N3FJP Field Day Logging software (Logistics & Finance) Obtain computer power supplies that don't produce RFI at levels interfering with station(s) performance. (Gibby / Operations) 3 weeks in advance ☐ Construct proper digital cables for the new 7300 Radio at least for Signalink (Operations) ☐ Construct and test bandpass filters (Gibby) ☐ Provide training opportunities for use of ICOM7300 and ICOM746PRO and SB-200 (Operations) DRESS REHEARSAL ☐ Bring in trailer, set up trailer station, Demo station, generator, Solar charging and test all of this 1 - 2 weeks in Test the network connection to the EOC radio room and have logging computers all working. advance Test ability of stations to operate on nearby bands and record outcome; if possible, record spectrum analyzer signal levels at opposite station □ PIO to send media press releases and appropriate information – send copies of releases and/or published coverage to PLANNING SECTION for BONUS POINTS, specifically itrites@tritesengserv.com with a subject line documenting it is for bonus points for MEDIA PUBLICITY PIO issues invitations to ELECTED GOVERNMENT OFFICIALS and SERVED AGENCY **WEEK BEFORE** REPRESENTATTIVES – keep documentation for submission to PLANNING □ PIO to outreach through SOCIAL MEDIA and document with photo/screenshot to PLANNING: Social Media: 100 points for promoting your Field Day activation to the general public via an active, recognized and utilized social media platform (Facebook, Twitter, Instagram, etc.), This bonus is available to bona fide amateur radio clubs and Field Day groups that welcome visitors

1. Incident Name: NF4AC 2020 Field Day		2. Incident Number:	3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am					
	to their operation. Individual participants do not qualify for this bonus. Club websites do not qualify for this bonus. Available to all classes							
Friday Afternoon & Evening	□ Gordon can use help packing the trailer in the afternoon for transport and solar power systems. (There is a checklist for the trailer) Expect trailer to arrive around 6 PM, with full water, empty gray and black water tanks, one charged battery, one generator, antenna mast and an HF antenna, and some provisions in the refrigerator. Either the generator or my batteries/inverter will need to run the refrigerator overnight – then the inverter can be released to help the EOC crew run their amplifier. □ Someone purchases gasoline for the generator (lets have 3 5-gallon jugs on hand) Need a CHAIN to lock them to a tree and a KEY stored in the TRAILER. Gordon has keys to the Trailer and will give one set to OPERATIONS. □ DIGITAL BULLETIN (BONUS POINT) OPERATIONS to coordinate having this message captured transmitted at 6pm / 9 pm Eastern - 3.5975, 7.095, 14.095 45.45-baud Baudot, PSK31 in BPSK mode and MFSK16 on a daily revolving schedule. □ Email the text of the bulletin to: jtrites@tritesengserv.com □ SSB BULLETIN (BONUS POINT) OPERATIONS to coordinate having this message captured at 9:49 PM Eastern - 3.99, 7.29, 14.29 (Note the 7.29 is full AM with carrier!) □Email the text of the bulletin to: jtrites@tritesengserv.com							
Saturday (6/27) 8:00 – 11:00	□ Setup crew □ Setup crew Generator, Sola PIO/GOTA Stat □ Satellite cre logging laptops, equipment at Sa □ Set up Inve the ICOM 7300 Radios. Check different positio □ SETUP (Or	STICS is in charge of delivery or crew (OPERATIONS) Check-In at Northwest Area PIO Station #3 or crew Install radios, primary and backup antennas, feedlines, tuners, logging laptops, (Primary F, Solar PV and emergency back-up) power, and associated equipment at Station #2 and A Station #3 locations. A Station #3 locations. A Station #3 locations. A Station #4 locations PV and emergency back-up) power, and associated that at Satellite Station #4. A Station #4 location PV location PV location inverter in the EOC (with bank of 2-3 AGM batteries) to operate the linear amplifier and/or 17300 – use MIF23 filter and associated filters. Position inverter as far as possible from the Check background noise level before and after turning on inverter and adjust as necessary (try locations) to document 100% Emergency POWER (BONUS POINTS) for every station the photos to prove it with pertinent subject line, to PLANNING SECTION, specifically						
Saturday 11:00 – 13:00	□ Setup crew Testing: Station #1 (EOC), Station #2 (Trailer), PIO/GOTA Station #3 and Satellite Radio Station #4 (Trites / Ridlon) Systems for planned bands and operating modes: CW, SSB Phone, and Digital (FT-8, FT-4, other). □ Operations Dress Rehearsal of (4) Stations transmitting at 50 watts and then 150 watts on combinations of planned bands to test for interference between stations. Operations to write Test Plan. □ Lunch on your own – we will see where we can go safely. □ PIO to send photos documenting PUBLIC LOCATION for Bonus Points, with appropriate subject line to PLANNING SECTION, specifically jtrites@tritesengserv.com □ PIO to send photos documenting PUBLIC INFORMATION TABLE (Demo Station) for Bonus Points, with appropriate subject line to PLANNING SECTION, specifically jtrites@tritesengserv.com							
Saturday 12:00 – 14:00	□ Participants	S Check-In at Northwest Area PIO Stat	ion 3					
Saturday	 □ OPERATIONS to set up one or more SOLAR POWER CHARGING SYSTEM(s) (BONUS POINTS) and take photo for documentation to send to PLANNING SECTION, with appropriate subject line for documentation and manage that system to charge at least 2 batteries during Saturday and then to have them used and DOCUMENTED for at least FIVE CONTACTS. □ Send a written statement as a file to PLANNING SECTION, specifically jtrites@tritesengserv.com with a photo of the charging system and the specific contacts listed that were made by Alternate Power. □ Operations is encouraged to have METERING on the charging stations and to educate members as to the success / performance of the systems utilized. 							

1. Incident Name: Ni 2020 Field Day	F4AC	2. Incident Number:	3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am					
Saturday / Sunday	document with a jtrites@triteser pdf so that PLA PIO (BONU invite and the vispecifically jtrite)	TIONS to set up one or more EDUCATIONAL ACTIVITIES (BONUS POINTS) and th attendance sheet and photograph sent by email to PLANNING SECTION, specifically sengserv.com with appropriate subject line – make it One document preferably in .doc or LANNING can easily upload it to the ARRL. NUS POINTS) is to invite an ELECTED GOVERNMENT OFFICIAL and document both the exist with a FILE including a photo or written statement, send to PLANNING SECTION, rites@tritesengserv.com with an appropriate subject line. Encouraged to mentor up and members by involving them in this processing						
	document with	PIO (BONUS POINTS) to invite REPRESENTATIVE OF AN AGENCY served by ARES and ument with copy of invitation / photo or suitable substitute in one file sent to PLANNING SECTION, cifically jtrites@tritesengserv.com						
Saturday 14:00 – 00:00	clubs participati Station #3, and **Ceep it to a radio are "free". entry category" **We may us depending on we depending on we depending on we depended in your message must sending a copy may be easiest **TEN RADIO POINTS Messand delivered or SEC undall Classes. All via amateur radio and to PLANNI **SATELLITI least one QSO Contests" (Rule allowed one dealso count for responded in the pland." You do QSOs may be of two Earth statio one (1) complet accomplished a PLANNING SEC encouraged to response.	ng in the 2020 ARRL Field Day event a optionally at Satellite Station #4. **two transmitters that "count" maxim.** Groups are allowed one dedicated sate e cell phones, or FRS radios, or VOIP that works. AM TO SM OR SEC: [ORIGNATED BY coment (by copy of radiogram) originate ction Emergency Coordinator by your go f participants, Field Day location, and essage must be transmitted during the ur submission in standard ARRL radials to PLANNING SECTION, specific to do on VHF digital from the "free" white DGRAMS SENT FROM THE FIELD DATA age Handling: 10 points for each for during the Field Day period, up to a message must be included with the der Rule 7.3.5. does not count toward messages claimed for bonus points dio RF. OPERATIONS to have this act of SECTION of each message, specificated satellite transmitter station with egular QSO credit. Show them listed see not receive an additional bonus for concounted for QSO credit unless prohibited and documented by having appropriated CTION of each message, specifically make this a teaching moment!	AY SITE: [ORIGNATED BY NF4AC] BONUS rmal message originated, relayed or received maximum of 100 points (ten messages). Field Day report. The message to the ARRL distinction to the total of 10 for this bonus. Available to smust leave or enter the Field Day operation ecomplished and documented by having a COPY fically to jtrites@tritesengserv.com bonus points for successfully completing at e Field Day period. "General Rules for All ARRL on) is waived for satellite QSOs. Groups are out increasing their entry category. Satellite QSOs eparately on the summary sheet as a separate stacting different satellites, though the additional of under Rule 7.3.7.1. The QSO must be between under Satellite OPERATIONS to have this y documented LOG ENTRIES sent to to jtrites@tritesengserv.com The group is					
Saturday Night / Sunday Morning	We may be hav General Staff m	ing so much fun that we can't stop thes	etion of Operations based on available volunteer. see people! I suggest that representatives from the ons (a) within the first few hours; (b) in the only).					

1. Incident Name: NF4AC 2. Incident Name: NF4AC			ident Number:	3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am		
Sunday (6/28) 00:00 – 14:00	☐ Operators work in pairs (Operator and Logger) making and logging (QSO's) contacts to other radio clubs participating in the 2020 ARRL Field Day event at EOC Station #1, RV Station #2, PIO/GOTA Station #3, and optionally at Satellite Station #4.					
Sunday 1400	□ Documentation Unit (Planning Section) gathers ALL documentation for filing. In general everything other than the logging computers should be emailed in the text or in an attachment to PLANNING SECTION specifically jtrites@tritesengserv.com					
14:00 – 1600	□ Teardown crew (OPERATIONS) Uninstalls all radios, primary and backup antennas, feedlines, tuners, logging laptops, (Primary Generator, Solar PV and emergency back-up) power, and associated equipment at Station 2, PIO/GOTA Station #3 and Satellite Station #4 locations. □ Teardown crew cleans Northwest Area grounds and EOC Radio room areas. □ LOGISTICS moves gear back to proper storage locations					
Sunday after Teardown	Anyone who is left, we go get supper and discus the "issues" we learned from. INCIDENT COMMANDER is in charge of this.					
Sunday/Monday	 Documentation Unit (Planning Section) files contest results with ARRL electronically Documentation Unit obtains EMAIL or CONFIRMATION of submission and forwards to Incident Commander Planning Section writes up report of operation, with input from all other sections 					
6. Prepared by: Name: Signature:Signature:						
ICS 201, Page 5 – 9 Date/Time:						

1. Incident Name: NF4 2020 Field Day	IAC	2. Incident Numb	oer:		e/ Time Initiated: June 27, 2020 Time: 8:00am		
9. Current Organizatio	n (fill in addition	al organization as	appropriate):				
or carront organization	Tr (IIII III addition		αρριοριιαίο,		<u>Liaison Officer</u>		
	Incident Co	ommander(s)	Γ		(Need Volunteer)		
	Gordon G	ibby, KX4Z			,		
	(Deputy – Vol	unteer needed)		— _i			
			L		Safety Officer		
'			-	ı	Gordon Gibby, KX4Z		
					Public Information Officer		
					Jeff Capehart, W4UFL		
					PIO Assistants		
					Carolyn Tann-Starr,		
					KN4WIQ		
					Jim Bledsoe KI4KEA		
Planning Section Chi	ef Operat	ions Section Chief	Finance/Admi		Logistics Section Chief		
John Trites, NO5X	Lelan	d Gallup, AA3YB	Susan Halbert	t, KG4VW	I Rosemary, KI4QBZ		
Planning Deputy	Oper	ations Deputy(s)	Finance/Adm	in Deputy	Logistics Deputy		
Gordon Gibby, KX4		McDow, K4ZSW Bledsoe, KI4KEA	ТВО	1	TBD		

1. Incident Name: NF4AC	2. Incident Number:	3. Date/Time Initiated:
2020 Field Day		Date: June 27, 2020 Time: 8:00am

10. Field Day Issues:

lssue:	Resource(s)	Remedy	<u>Plan</u>	<u>Report</u>
Generate 2020 Field Day Interest Questionnaire John NO5X		Generated Google Form	Completed (5/21) and emailed 59 potential participants	Google Form Analytics – to be sent out by (5/29)
2.4 GHz Wireless Communications	Leland AA3YB Earl KI4ZSW John NO5X	Test (2) Ubiquity Radio Systems through EOC NW Wall and to NW Area	TBD	TBD
Spreadsheet Forms for Bonus Points	John NO5X	2020 Field Day Planning Excel Workbook	Team to Review	Write After Action Report
Operating Band Plan and Schedule	John NO5X	2020 Field Day Planning Excel Workbook and Appendix A	Team to Review and Finalize by (6/11)	Write After Action Report
(1) Porta-Potty for NW Area	Rosemary KI4QBZ	Quotes for Rental over Field Day weekend	Delivery on Friday (6/26 after Noon) Pickup on Sunday (6/28 after 2pm)	Write After Action Report
Gordon's New RV 2 nd Restroom	Gordon KX4Z	Get written approval from Sherriff's Dept. to drive RV into NW Area	Delivery on Friday (6/26 after Noon) Removal on Sunday (6/28 after 2pm)	Write After Action Report
Media Publicity and Follow-up	Jeff W4UFL Carolyn KN4WIQ	Create FD Flyer and Send News Release(s) to local newspaper, radio or TV stations.	Public Location and Invite Follow-up Calls to Media Need Public Information Table at the event	Write After Action Report
Class 2F Stations required 100% E-PWR	Leland AA3YB	TX operating on power completely independent from commercial power.	Includes Battery power and gasoline generator power	Write After Action Report
W1AW Bulletin	Leland AA3YB	Correctly Copy W1AW Bulletin transmitted several times over the FD Weekend.	Check ARRL Schedule for times, bands and modes of transmitted message	Write After Action Report
Site Visit by Elected Official	Jeff W4UFL Carolyn KN4WIQ	Invite Mayor, Supervisor(s), Board Member(s), or preferably Alachua County Sherriff Sadie Darnel	Explain the benefits of Amateur Radio for the community and how we can provide a valuable service at no taxpayer expense.	Write After Action Report
Education Activity	Jeff W4UFL Gordon KX4Z	A Formal Amateur Radio related activity	Gordon's Arduino battery charger	Write After Action Report
Electronic FD Log Submission	John NO5X	Send Field Day Results electronically to the ARRL	Claim all of the contact and bonus points for the club.	Write After Action Report
Satellite QSO	John NO5X Mike R. K4MR	Make 2-way contact to any ARO Bird during the FD Event	Designate a (2) person team and (2) FM/SSB Radios	Write After Action Report
Logging Station Comms Network between NW Area & EOC Stations	Earl K4ZSW Leland AA3YB John NO5X	Setup a 2.4GHz Mesh Network between the NW Orange Area and the EOC Radio Room.	Test (3) Ubiquity Radio Systems through EOC NW Wall and to NW Area	Write Test Report
W1AW Bulletin	Gordon KX4Z	Gordon to coach someone who is willing to perform this task.	Friday evening, digital is by far the easiest time and mode.	Write Test Report
2020 Field Day Logging Software for (3) Stations	Leland, AA3YB Susan, KG4VWI	Purchase (3) N + 1 N3FJP 2020 Field Day Logging Software programs to support (3) Stations	Operations Download & Register Software @ http://n3fjp.com/fieldday.html Use PayPal \$8.99 per station	Operations send payment receipts to Finance & Accounting for Reimbursement
N3FJP Logging Database Server and Client Stations Leland AA3YB Earl K4ZSW John NO5X		Setup (N + 1) and Test Laptops with 2020 Field Day N3FJP Logging software.	Operations Install and Configure Primary Station #1 as the Server / Database and Client-1. Setup Station #2 as Client -2 and a 3rd backup laptop as Client-3.	Write Test Report

Prepared by: Name:	John Trites, NO5X	Position/Title:	Signature:	
ICS 201, Page 11		Date/Time: _		

INCIDENT BRIEFING (ICS 201)

1. Incident Name: NF44 2020 Field Day	AC	2. Incident Number:				3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am
11. Resource Summary	: EOC Statio	n #1				
Resource	Resource Identifier	Date/Time Ordered	ETA	Arrived		Notes (location/assignment/status)
New ICOM IC-7300 and RigExpert Zoom 230	AA3YB W4JIR	Ordered	Delivered		David H	w equipment was ordered by Deputy Sherriff Huckstep and delivered to the EOC to be
New AT-1000 Pro	AA3YB W4JIR		Delivered			and configured by the NF4ARC ARES group C Emergency Communications.
New 12V Power Supply	AA3YB W4JIR		Delivered		NF4AR	was approved for use during the 2020 C Field Day event.
(3) AGM 12VDC Batteries.	AA3YB W4JIR		Delivered		AGM B	230 Antenna Analyzer for FD measurements atteries can be charged inside EOC or at the ea's Solar PV Charging Station.
160m – 10m OCF Dipole Primary Antenna	AA3YB EOC		Complete		ECO w take on	the existing Chigger Dome Antenna south of ith recently repaired feedline. SWR readings (5/29) indicate good SWR on most bands. o use new LTG-1000 auto-tuner.
Necessary Digital TNC and cables for the new 7300 to support FT-8, FT-4 and Winlink OPS	AA3YB		3 weeks in adv.		with Fir	ions to determine requirements and work nance and Logistics to procure necessary ent, cabling and software where applicable.
Spare antenna for the EOC HF station	KX4Z		Sat. AM		Wave (the prin Installa OCF ar	bringing an 80m to 10m End-Fed Half-EFHW) backup antenna for the EOC should nary OCF go down. tion should be at the 100 ft. south fence line ntenna disconnection point between the 00 and RG-8X feedline coax cables.
2.4GHz Mesh Network and Wireless Networking gear or solutions	AA3YB K4ZSW KI4KEA		1 – 2 weeks prior to Field Day		2.4GHz Networ	ions to install, setup, test and commission z Mesh Network for N3FJP FD Logging k between EOC Radio Rm Station #1 and cions in NW Areas.
N3FJP Logging / Operations computer for EOC Station #1	AA3YB NO5X		1 – 2 weeks prior to Field Day		N3FJP mode, EOC R Operati Databa procedi (3) Clie extendo	ions to purchase, install and configure Field Day Logging Software in TCP/IP Database / Server and Client-1 on laptop in adio Rm Station #1. ions to write test plan for N3FJP Logging se / Server including re-connection ures and 15-min auto-backup of contacts for ints if the Mesh Network goes down for an ed period. e Chief to reimburse Operations for \$8.95 tion.
Spectrum Analyzer	KX4Z		1 – 2 weeks prior to		the RFI Make to	the EOC prior to the Field Day and scope out level on the antenna. entative measurements in the NW grassy
Duamaged by Maria	alam Tuitee Ni	OEV - Dec'''	Field Day		area wi	th an exploring antenna
Prepared by: Name:	onn Trites, NO		on/Title:			Signature:
ICS 201, Page 12 Date/Time:						

1. Incident Name: NF4A 2020 Field Day	C	2. Incident Number:				3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am
12. Resource Summary	: RV Trailer	Station #2 (G	ordon Gibl	by, KX	4Z)	
Resource	Resource Identifier	Date/Time Ordered	ETA	Arrived		Notes (location/assignment/status)
RV Trailer – includes mast, internal chairs, internal table, etc.	KX4Z		Fri		Gordon road fen	to park in NW Area Orange Zone along the ce line.
N3FJP Logging / Operations computer for RV Station #2	KX4Z AA3YB		Fri		2 N3FJF	ons to purchase, install and configure Client- P Field Day Logging Software. Finance reimburse Operations
SB-200 Amplifier for RV station	KX4Z		Fri		Gordon	
600-Watt auto tuner	KX4Z		Fri		Gordon	
GO BOX HF RIG including antenna tuner	KX4Z		Fri		Gordon	– may not need much of this
ICOM 746 Pro	KI4QBZ		Testing before		Rosema	ry to provide with power supply
Coax & EFHW antenna	KX4Z		Fri		Gordon	
1:1 Balun	KX4Z		Fri		Gordon	
Slingshot equipment	KX4Z		Fri		Gordon	
Potable water in travel trailer	KX4Z		Fri		Gordon	
FIRE EXTINGUISHER with support mount	KX4Z		Sat AM		Gordon	
3 five-gallon safe containers of gasoline	KI4QBZ		Sat AM		Logistics	s / Finance and Accounting
100% Emergency Power	KX4Z K4ZSW		Sat AM		2kW sin	or for the RV Trailer, (2) MIF 23 based filters e wave inverter and I can bring a 50 or 100-extension cord.
300 – 600Watt Portable Solar PV Charging Station	KX4Z		Sat AM		(1 or 2)	300Watt solar panels 15A MPPT chargers 75-100 Ah Battery
HF Antenna	KX4Z		Sat AM		Gordon	to specify details
Intercom	KX4Z		Sat AM		Allows to	wo operators with headsets to deal with a SSB
600-watt auto-tuner			Sat AM		For RV t	railer station #2
Prepared by: Name:	ohn Trites, NO	<u>D5X</u> Positi	on/Title: _			Signature:
ICS 201, Page 13		Date/	Time:			

1. Incident Name: NF4A 2020 Field Day	1. Incident Name: NF4AC 2020 Field Day		Number:			3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am	
13. Resource Summary:	PIO / DEMO	and GOTA	Station #3 (Jeff C	apehart,	W4UFL)	
Resource	Resource Identifier	Date/Time Ordered	ETA	Arrived		Notes (location/assignment/status)	
EOC Shelter Go-Box	AA3YB		Sat AM			ital beforehand. To be located in the NW Area one during field day.	
Signalink or other TNC to go on Shelter Go box	??	June 1st	2 wks. adv.			cated with the EOC Shelter Go-Box to support nd Winlink comms.	
Computer for the Demo station outreach	AA3YB	June 1st	Sat AM		Winlink I	Client-3 Logging Station Express ograms ??	
Table & chairs for Demo station	KI4QBZ	June 1st	Sat AM		Rosema	ry – will need TRANSPORT	
Canopy(s) for Demo Station	KI4QBZ	June 1st	Sat AM		Rosema	ry – will need TRANSPORT	
Backup Radio Station #3	KX4Z	June 1st	Sat AM			on with Signalink that can be a part of this effort, with a tuner	
VHF WINLINK gateway node NF4AC-3	KX4Z	June 1st	Sat AM		Set it up so that anyone on site and easily send Winlin messages from the "free" VHF transmitter per the rules		
Public Information Office Materials	W4UFL KN4WIQ	1 – 2 wks. prior to Field Day	Sat AM		Create a during Fi	and Print set of materials to hand out to public ield Day	
Media Publicity and Media Follow-up 100 bonus points	W4UFL KN4WIQ	2 weeks prior to Field Day	Sat AM		Send News Release(s) to local newspaper, radio or Ti stations' assignment editor or news director (two week advance) with a flyer showing location, dates and time and FD contact(s) and a description of the event. Provide follow up call(s) to those contacted the Tuesda before the event to invite them to FD operations on Saturday afternoon (or Sunday morning)		
Public Location and Invite 100 bonus points	W4UFL KN4WIQ	2 weeks prior to Field Day	Sat PM or Sun AM		the even Needs P display,	private property as long as the public is invited to it. Public Information Table at the event with small pamphlets, brochures and sign-up sheet to track new ARO's	
ARRL Section Manager Message 100 points for 1st message 10 points for each additional NTS Radiogram	W4UFL KN4WIQ	2 weeks prior to Field Day	Sat PM or Sun AM		format to KK4BFN Must be	ond Transmit ARRL Radiogram using NTS style to the Florida ARRL Section Manager (Kevin Bess I,) during the 2020 Field Day Event. sent over the radio waves using any legal	
Site Visit by Elected Official 100 bonus points	W4UFL KN4WIQ	2 weeks prior to Field Day	Sat PM or Sun AM		method, any band and any mode. Mayor, Supervisor(s), Board Member(s), Sherriff Sadi Darnell Explain the benefits of Amateur Radio for the communand how we can provide a valuable service at no taxp expense. Extend Invitation to local Red Cross, EOC, Salvation and other served Emergency Management agency personnel		
Designating a Safety Officer 100 bonus points	KX4Z	2 weeks prior to Field Day	Sat AM through Sun AM			e (KX4Z) must complete a Safety Checklist in the D Rules Packet and ensure that FD is a Safe	

1. Incident Name: NF4A 2020 Field Day	VC .	2. Incident Number:			3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am			
13. Resource Summary	: PIO / DEMO	O and GOTA S	Station #3 (J	leff Capehar	t, W4UFL)			
Educational Activity Bonus 100 bonus points	KX4Z	2 weeks prior to Field Day	Sat PM or Sun AM	A Formal Amateur Radio related activity Ideas could include: G. Gibby's Arduino battery switcher/charger, or how to make printed circuit boards how to publish on Kindle				
Social Media Promotion 100 bonus points	W4UFL KN4WIQ	2 weeks prior to Field Day	Sat AM	Publicize/Post NF4ARC Field Day Event on Facebook, Twitter, Instagram or other Social Media sites And TAG the ARRL on each of these sites in the Post(s).				
Electronic FD Log Submission 50 bonus points	NO5X	Within 1 week after Field Day	July 6th		ield Day Results electronically to the ARRL to claim e contact and bonus points for the club.			
Prepared by: Name:	ohn Trites, NO	<u>D5X</u> Position	on/Title:		Signature:			
ICS 201, Page 14 - 15 Date/Time:								

1. Incident Name: NF4A 2020 Field Day	NF4AC 2. Incident Number:				3. Date/Time Initiated: Date: June 27, 2020 Time: 8:00am
14. Resource Summary:	Satellite St	ation #4 (Joh	n Trites, N	O5X a	nd Mike Ridlon, K4MVR)
Resource	Resource Identifier	Date/Time Ordered	ETA	Arrived	Notes (location/assignment/status)
ICOM 706MKIIG Radio Go-Box	NO5X	0.00.00	Sat AM		Includes radio, 12V / 30Amp power supply and LDG AT-200 Pro II auto-tuner
2m VHF Tape Measure Antenna	NO5X		Sat AM		Backup Antenna for 2m only Transmit 5 – 10 Watts or Receive only.
New VHF/UHF LPDA Antenna	NO5X		Sat AM		In Design now. Fabrication and Assembly TBD
RG-8X feedline coaxial cables	NO5X		Sat AM		As required to support 2-way Satellite Comms
6-foot table, 2 chairs, 10' x 10' canopy for Satellite Station #4	NO5X		Sat AM		NW Area Green Zone Station #4 setup, operations, and tear down by John Trites and Mike Ridlon
Satellite Tracking Software on Laptop	NO5X		Sat AM		Ham Radio Deluxe and other programs on my laptop
Yaesu FT-857	K4MVR		Sat AM		Dual-band setup for Satellite Communications
Go-box and 12VDC Battery	K4MVR		Sat AM		30 Ah Battery Charge Controller, Transfer Switch, and 12V distribution block.
New Dual band 2x4 Cross Yagi Antenna	K4MVR		Sat AM		I will hopefully have tested this before the 20th. Still in the build process.
Folding camp chairs	K4MVR		Sat AM		Two
Portable table, 10x10 canopy	K4MVR		Sat AM		If needed. Please let me know.
Operating Laptop	K4MVR		Sat AM		Sat tracker Software, Winlink, and more.
RG-8X Feed line	K4MVR		Sat AM		Approx. 100' on a Reel
2 kW Generator	K4MVR		Sat AM		RF Quiet
100Watt Portable Solar PV Charging Station	K4MVR		Sat AM		Located in NW Area Green Zone to support Satellite Station #4 and any other stations wishing to charge batteries.
50' extension cord	K4MVR		Sat AM		
Tri-pod	K4MVR		Sat AM		I don't have an articulating mount so don't know if it can/will be used.
Prepared by: Name: Jo	hn Trites, NO	05X Position	on/Title:	•	Signature:
ICS 201, Page 16		Date/	Time:		

APPENDIX A – 2020 EOC FIELD DAY BAND PLAN & SCHEDULE

Operating Saturday (6/27)		EOC Radio Room Station 1		RV Trailer NW Area Orange Zone Station 2		NW Area	10 & GOTA Yellow Zone tion 3	VHF/UHF Satellite NW Area Green Zone Station 4		
By John Trites NO5X	UTC Time	NF4AC Time	Band / Freqs / Mode	Operators	Band / Freqs / Mode	Operators	Band / Freqs / Mode	Operators	Band / Freqs / Mode	Operators
Setup (3 Hours)		11am - 2pm	HF	AA3YB	HF	KX4Z	VHF/UHF	W4UFL	VHF/UHF	NO5X K4MVR
Sat_1		2pm - 4pm								
Sat_2		4pm - 6pm								
Sat_3		6pm - 8pm								
Sat_4		8pm - 10pm								
Sat_5		10pm - 12am								
	Sunda	y (6/28)								
Sun_1		12am - 2am								
Sun_2		2am - 4am								
Sun_3		4am - 6am								
Sun_4		6am - 8am								
Sun_5		8am - 10am								
Sun_6		10am - 12pm								
Sun_7		12pm - 2pm								
Teardown		2pm - 5pm								

APPENDIX B – 2020 EOC FIELD DAY MICROWAVE LOGGING NETWORK

2020 ARRL Field Day – Alachua County EOC Site Testing

Ubiquiti Point-to-Point Link Testing March 30th, 2020 Test Report

John Trites, NO5X Earl McDow, K4ZSW Leland Gallup, AA3YB

Purpose: To determine if we can establish a reliable Point-to-Point (or Multi-Point) 2.4 GHz communications Mesh Network supporting two

or more Field Day N3FJP Logging Laptops.

Logging Stations: The primary Logging laptop shall be setup with the N3FJP Logging Database as the Server and Client #1 located in the Alachua

County EOC Radio Room Station #1 next to the new ICOM IC-7300 Radio.

The 2nd Logging laptop shall be setup with the N3FJP as Client #2 to Station #1's Logging Database Server located in the NWArea-2

Orange zone inside Gordon's new RV Trailer Station #2.

An optional 3rd Logging Laptop may be setup with N3FJP as Client #3 to Station #1's Logging Database Server over a Wireless

network through Station #3 in the NWArea-3 Yellow zone for the PIO Demo/GOTA Station #3. This station does not require

logging for PIO/Demo contacts but can be used for logging GOTA contacts and serves as a backup N3FJP logging laptop for Station

#1 or Station #2 in the event of either failing.

Logging Backup: All Logging Station Laptop Clients shall be configured to auto-backup their contacts every 15-minutes in the event one or more of

them fail or lose a Mesh Network link connection to Station #1's Database/Server.

Planning/Operations shall write, train and follow a Loss of N3FJP Server Database connection procedure for any N3FJP Logging

Client program that crashes due to a loss of communications to the Logging Server. This procedure shall describe the steps

required to re-establish communications over the Mesh Network and re-connect to the N3FJP Database/Server.

Summary Report: The challenge of building a reliable Mesh Network for Field Day between Station #1 inside the EOC's Radio Room and Station #2

located in the Northwest Orange zone's Station#2 is through the 18" Concrete EOC's outside NW wall. All (4) radios are from Ubiquiti Networks, two attached to Bullet M2 and one attached to Nano M2 omni-directional antennas. Radio-1 is an Omni radio

attached to a 13-element Yagi antenna.

There were three sets of test groups:

1. **Test Group A** established a series of tests starting with a baseline of (fixed location) Radio-2 set at about 8 feet above the floor 1 foot from the NW building corner inside wall on top of a filing cabinet and Radio-1 on the floor both inside Rm 59 of

the EOC.

• Pairs of tests starting with 2 and 3 vary the distance from outside the EOC NW wall (other side of concrete) with even tests using vertical polarizations and odd tests using horizontal polarization of Radio-1's Yagi antenna.

- Each pair of tests moves the Yagi Radio-1 from outside the EOC NW wall (about 3 4 feet away from Radio-2 inside the EOC Rm 59) to 1/4 distance, 1/2 distance, 3/4 distance and in the NW Area Orange zone.
- Test results show that in almost all cases, horizontal polarization, has a higher S/N (signal to noise ratio) than vertical polarization for both radios at approximately 2m (6.5 FT) in height. I recommend increasing the height(s) of both radios to decrease Fresnel reflection path loss for this point-to-point configuration very low to the ground.
- Test 10 with vertically polarized Radio-1 Yagi to omni-directional Radio-2 Bullet M2 resulted in a <u>negative</u> 4dB S/N Ratio not capable of supporting communications in one direction.
- Test 11 with horizontally polarized Radio-1 Yagi to omni-directional Radio-2 Bullet M2 resulted in a very low 5dB S/N Ratio also not capable of supporting reliable communications in one direction.
- In order to support reliable two-way communications between radios, a 20 dB S/N Ratio is required to support 10^{-9th} Bit Error Rate. Lower S/N Ratios in the 12 16 dB can support communications but with 30 20% packet loss respectively.
- 2. **Test Group B** was setup to test Radio-4 with Bullet M2 antenna outside the EOC's Rm 59 NW Wall approximately 2m (6.5 FT) height from the ground and Radio-1 with Yagi antenna in last location of Test Group A just inside the NW Area Orange zone.
 - Comparison of Test Group A's test 10 vertically polarized Yagi with Test Group B's test 1 shows a small 2dB S/N Ratio improvement.
 - Comparison of Test Group A's test 11 horizontally polarized Yagi with Test Group B's test 2 shows a significant 19 dB improvement.
 - Either polarization of the Yagi will result in a minimum 22 dB S/N Ratio at Radio-1 (Yagi) and minimum 47 dB S/N Ratio at Radio-4. This proves the Test B group configurations will support reliable communications on segment 1 between outside the EOC NW corner wall and the NW Area Orange zone.
- 3. **Test Group C** was setup to the test Radio Radio-4 with Bullet M2 antenna outside the EOC's Rm 59 Wall approximately 2m (6.5 FT) height from the ground and Radio-2 with Bullet M2 antenna inside the EOC's Rm 59 Wall approximately 2.5m (8 FT) height from ground.
 - Resulted in a minimum 32 dB S/N Ratio between Radio-4 and Radio-2 through the 18" concrete EOC NW Wall. This
 proves Test C group configuration will support reliable communications on segment 2 from each side of the EOC's
 NW corner wall.
- 4. **Test Group D** was NOT tested yet but is pending. We need to establish a wireless or Ubiquiti radio link (segment 3) between Radio-2 inside the EOC's Rm 59 and the EOC's Radio room for Station #1's N3FJP Logging Server Database / Client-1.

• An alternative to segment 3 is a standard wireless connection inside the EOC OR running approximately 100 feet of Cat-6 ethernet cable from the EOC Radio Room and EOC Room 59 on the floor of the presentation area (need permission from the EOC to temporarily run this cable on the floor or in the ceiling).

Radio-2 K4ZSW-AREDN2 @ Loc-1: Inside EOC Rm 59

Test Plan Group A:

2020 Field Day I	N3FJP Logging Software			
Ubiquity 2.4 GH	z Point-to-Point Radio Testing Plan		Leland Gallup	AA3YB
Date:	5/29/2020	Testing Team	Earl McDow	K4ZSW
Site:	Alachua County EOC		J. Trites	NO5X
Test Plan:	John Trites, NO5X			

Radio ID	Radio and Antenna Description	Ext. Antenna	Owner/Name	=	_
		TUPAVCO TP512			
Radio-1	Ubiquity Omni	13-element Yagi	K4ZSW-AREDN		_
Radio-2	Ubiquity Bullet M2	n/a	K4ZSW-AREDN2		
Radio-3	Ubiquity Nano M2	n/a	AA3YB		
Radio-4	Ubiquity Bullet M2	n/a	KX4Z		

	Test Group A			Config	Measu	red	Calc
Test #	Test Condition Both Radios Inside EOC NW Rm 59 area	Location-1 Inside EOC NW Rm 59	Antenna Height / Orientation 8FT / Omni	TX Power +10dBm	RX Signal -55	Noise -90	S/N Ratio 35
2	18" Concrete / Rebar		o , o		-60	-90	30
3	18" Concrete / Rebar				-60	-90	30
4	18" Concrete / Rebar + 560 FT				-69	-90	21
5	18" Concrete / Rebar + 560 FT				-77	-90	13
6	18" Concrete / Rebar + 560 FT	Inside EOC NW Rm 59	8FT / Omni	+10dBm	-82	-90	8
7	18" Concrete / Rebar + 560 FT	iliside EOC NW Kili 55	ori / Ollilli	+1006111	-77	-90	13
8	18" Concrete / Rebar + 560 FT				-77	-90	13
9	18" Concrete / Rebar + 560 FT					LOST SIGNA	۸L
10	18" Concrete / Rebar + 560 FT				-94	-90	-4
11	18" Concrete / Rebar + 560 FT				-85	-90	5

	Test Group A	Radio-1 K4ZSW-AREDN @	ු Loc-2: EOC-2 Outside NV	V Rm 59			
	rest Group A			Config	Config Measured		Calc
Test #	Test Condition	Location-2	Antenna Height / Orientation	TX Power	Signal	Noise	S/N Ratio
1	Both Radios Inside EOC NW Rm 59 area	Both Radios Inside EOC NW Room area / 1FT Horiz		+8dBm	-44	-95	51
2	18" Concrete / Rebar	Outside EOC NW Rm 59	6FT / Vertical		-53	-95	42
3	18" Concrete / Rebar	Outside EOC NW Rm 59	6FT / Horizontal		-47	-95	48
4	18" Concrete / Rebar + 560 FT	Outside EOC 1/4 distance to NW Area	6FT / Vertical		-68	-95	27
5	18" Concrete / Rebar + 560 FT	Outside EOC 1/4 distance to NW Area	6FT / Horizontal		-62	-95	33
6	18" Concrete / Rebar + 560 FT	Outside EOC 1/2 distance to NW Area	6FT / Vertical	+8dBm	-79	-95	16
7	18" Concrete / Rebar + 560 FT	Outside EOC 1/2 distance to NW Area	6FT / Horizontal	+80DM	-70	-95	25
8	18" Concrete / Rebar + 560 FT	Outside EOC 3/4 distance to NW Area	6FT / Vertical	T / Vertical		-95	25
9	18" Concrete / Rebar + 560 FT	Outside EOC 3/4 distance to NW Area	6FT / Horizontal			LOST SIGN	NAL
10	18" Concrete / Rebar + 560 FT	Outside EOC in NW Area Fence Opening	6FT / Vertical		-73	-95	22
11	18" Concrete / Rebar + 560 FT	Outside EOC in NW Area Fence Opening	6FT / Horizontal		-77	-95	18

Test Plan Group B:

	u G. Gup 2.	Radio-4	@ Loc-3: Outside EOC NW	/ Wall				
	Test Group B	made i e 100 si outside 100 iiii			Config Measured		Calc	
Test #	Test Condition	Location-3	Antenna Height / Orientation	TX Power	Signal	Noise	S/N Ratio	
1	Outside EOC NW Rm 59 + 560 FT	Outside EOC NW Production WorkRm 95	6FT / Omni	?? dBm	-48	-95	47	
2	Outside EOC NW Rm 59 + 560 FT	Satisfaction Working 35	5 , 5		-47	-95	48	

	Test Group B	Radio-1 K4ZSW-AREDN @ Loc-2: Orange Zone / Fence Opening							
	rest Group B		Config	Measured		Calc			
Test			Antenna Height /						
#	Test Condition	Location-2	Orientation	TX Power	Signal	Noise	S/N Ratio		
1	Outside EOC NW Rm 59 + 560 FT	NW Area Fence Opening	6FT / Vertical	+8dBm	-71	-95	24		
2	Outside EOC NW Rm 59 + 560 FT	NW Area Fence Opening	6FT / Horizontal		-58	-95	37		

Test Plan Group C:

	Test Group C	Radio-2 K4ZSW-AREDN2 @ Loc-1: Inside EOC Rm 59								
rest Group C			Config	Measured		Calc				
Test #	Test Condition	Location-3	Antenna Height / Orientation	TX Power	Signal	Noise	S/N Ratio			
1	Inside EOC NW Rm 59 to Outside EOC NW Wall	Inside EOC NW Production WorkRm 95	6FT / Omni	+10dBm	-59	-91	32			

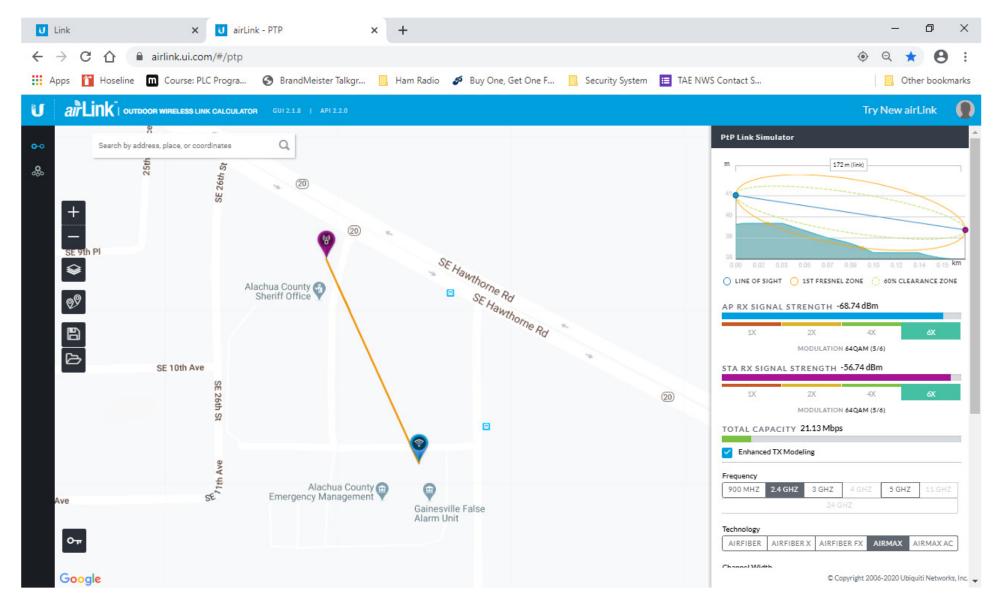
	Test Group C	Radio-4 @ Loc-3: Outside EOC Rm 59 NW Wall							
	rest Group C		Config	Measured		Calc			
Test #	Test Condition	Location-2	Antenna Height / Orientation	TX Power	Signal	Noise	S/N Ratio		
1	Inside EOC NW Rm 59 to Outside EOC NW Wall	Outside EOC NW Rm 59	6FT / Omni	** dBm	-51	-95	44		

Test Group A: Tests 2 & 3 demonstrate the path loss between Radio-1 with a 18dB Gain Yagi antenna in both horizontal and vertical directions and Radio-2 Omnidirectional Bullet M2 antenna through the EOC NW concrete wall approximately 6 feet apart.

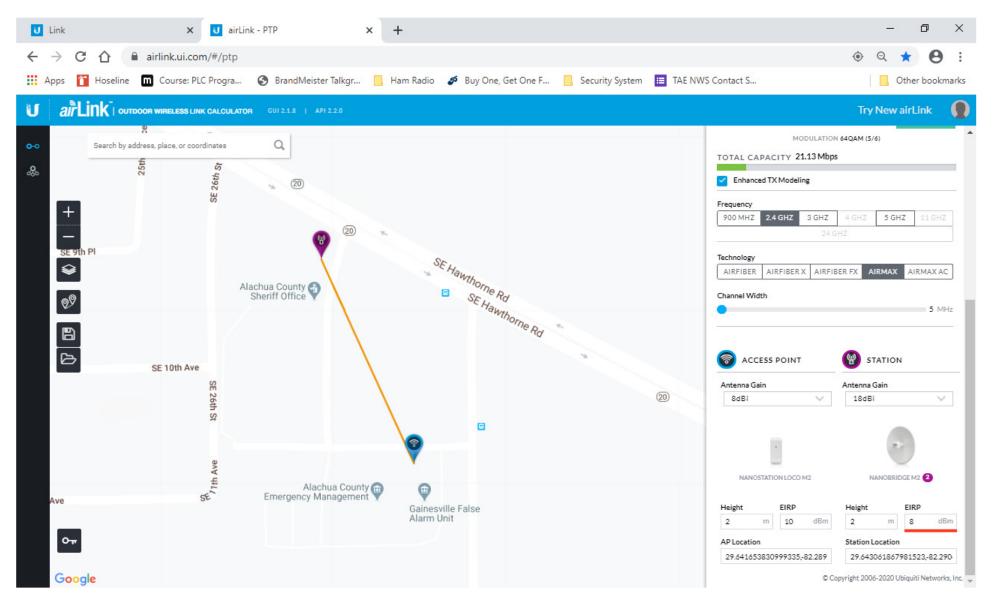
Ubiquiti recommends operating their radio transmitters between +14dBm to +18dBm for optimum performance and reliability.

^{**} At the time of testing, the Transmit Power Level for Radio-4 was not recorded. Gordon Gibby can log into his Radio-4 and check the current TX Power Level, we can determine the path loss through the EOC's NW Corner conrete wall.

AirLink Outdoor Wireless Link Calculator:



AirLink Outdoor Wireless Link Calculator:



SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name:	2. Operational Period: Date From: June 26	Date To: June 28
NFARC 2020 FIELD DAY	Time From: 0000LOC	Time To 2359LOC:

3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan:

- COVID-19 Risks. Exercise prudent caution. Maintain social distancing whenever possible; utilize appropriate masking when unable. Pay attention to sanitization of surfaces, microphones, etc. Wash hands frequently. Suitable wash facilities will be made available. Contact Operations or Safety Officer if any concerns.
- MICROPHONES/HEADSET: Suggest each person, if possible, bring their own microphone / Headset (with name marked) for ICOM 8-pin OCTAL plug. Otherwise, microphones should be wiped with suitable sanitizer between use by different persons (suggest 70% alcohol-based systems) Suggest that persons consider obtaining their own Boom Headset/Mic as we discussed beginning December 2019

Location	Maximum People	Details
EOC Radio Room	2 persons; masks	Try to stay apart – suggest use of intercom where appropriate.
EOC Conference Room (if suitable for use)	10 persons; masks	Stay spread out! If possible, when you exit the area, wipe down the table area where you were located
RV Trailer Radio Operations	2 persons; masks 10 persons maximum, total in this area INCLUDING THE RV	Additional person may go into restroom. Obviously, wash your hands well. Since the water supply is limited, don't leave the water RUNNING while you scrub until you're ready to rinse, please.
DEMO / GOTA STATION	TRAILER 	This is an OUTDOOR effort and was set up that way specifically because the risk of spread outdoors is far less (perhaps an order of magnitude less or more). Masks are still suggested if unable to guarantee social distancing.
SATELLITE STATION		This is an OUTDOOR effort and was set up that way specifically because the risk of spread outdoors is far less (perhaps an order of magnitude less or more). Masks are still suggested if unable to guarantee social distancing.
Solar Power Charging	10 persons max, masks optional	This is an OUTDOOR effort and was set up that way specifically because the risk of spread outdoors is far less (perhaps an order of magnitude less or more). Masks are still suggested if unable to guarantee social distancing.

- SUN: avoid sunburn and over heating. Drink fluids. Porta-Potty and indoor and trailer facilities will be available
- Over Use: Do not stress yourself. This is a FUN event. Plan ahead to reduce efforts on the day of.
- Security: Maintain situational awareness, particularly at night. Firearms are not allowed within any of the government buildings unless you are a police officer. Strongly recommend that firearms in your vehicle or person not be brought to visibility.
- Fire/Explosion/Electricity: Care in handling liquid fuels and electrical cables. Do not pour liquid fuel into a generator until it has cooled off. Do not make contact with electronic connections (extension cord plugs ins) that are wet with dew. Ground all generators at the generator.
- Physical Hazards: Please mark and appropriately minimize any trip or walk-into hazards from cables, wires.
- FIRST AID: There will be modest first aid supplies at the RV Trailer.

PLEASE CONTINUE TO NEXT PAGE

4. Site Safety Plan Require Approved Site Safety Plan			
5. Prepared by: Gordon Gibby, KX4Z Position/Title: Inc Com/Safety Of Signature:		sition/Title: Inc Com/Safety Of Signature: s G. Gibby	
ICS 208	IAP Page		Date/Time: May 28 2020 1515 LOC

28 DC:						
3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan: CONTINUED (continued from page 1)						
afe						
Y						
4. Site Safety Plan Required? Yes ■ No ☐ Approved Site Safety Plan(s) Located At:						
5. Prepared by: Gordon Gibby, KX4Z Position/Title: Inc Com/Safety Off Signature: s G. Gibby						