

# INCIDENT BRIEFING (ICS 201)

<b>1. Incident Name:</b> NFARC/ARES Field Day 2022	<b>2. Incident Number:</b> 004	<b>3. Date/Time Initiated:</b> Date: _____ Time: _____
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**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):



Alachua County EOC. 1100 SE 27<sup>th</sup> Street. Gnv FL 32641.  
ARRL Field Day Rule: All antennas and items must be within 1000 ft dia circle. Positioning of items in grassy area is approximate and will be settled by Operations Section. Solar charging truck to be parked out of the way of all, and as far away from HF stations as possible (to avoid RFI). Map of County and both known Field Days: <https://qsl.net/nf4rc/2021/CountyFieldDayMap.jpg>

Fenced NW Grassy Area for outdoor Station#2 & VHF / Command Post / Visitors / GOTA control point.



**High security area. Follow all commands from authorities. Stay away from CCC area. No weapons inside EOC building other than statutorily allowed.**

**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.

**Field Day Executive Summary**  
**ARRL Field Day @ Alachua County EOC: NF4AC EOC Club Call Sign**  
 Note that there are at least TWO groups holding Field Day in Alachua County. This information is for the ARES/NF4RC/NF4AC group. The Gainesville Amateur Radio Society will hold their excellent Field Day in Waldo, Florida. Further details on that effort: <http://gars.club/>  
*(requested in previous Improvement Plan)*

[Online Operating SignUp](#)

June 25, 26 2022 Field Day is always the last FULL weekend in June.	<b>EXCHANGE:</b> <b>2F NFL</b>	Onsite setup begins at 0800 Saturday due to LOWER TEMPERATURES
MARC UNIT expected to pre	LOGISTICS prepares and	OPERATIONS supervises all

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present for antenna support at Station #2 unless deployed elsewhere	supervises all equipment to/from site.	functions of running the operation.
Actual Field Day starts at 2 PM: CALL SIGN: NF4AC Exchange 2F NFL	1 Free VHF transmitter -- work 6M/2M etc. Possible use to move bonus radiograms to K4ZSW-10 or KX4Z-10	Free Satellite Station - try to get bonus points
2 HF Transmitters	Try every band from 160 to 2 meters! Try every mode you wish.	All bonus point photo documentation goes to Documentation Email docvacuumtubes@gmail.com
Actual Field Day starts at 2 PM CALL SIGN NF4AC  (Alachua County EOC Call)	1 Free VHF transmitter -- EOC data station can do the radiograms required for bonus points. Connect to K4ZSW-10 145.070 or KX4Z-10 on 145.030	PIO/GOTA @ Entrance - RV Awnings / Fans Plan is for VHF demo / Alachua County Shelter Go-Box Demo. ((coordinate with VHF data station inside EOC))
<p><b>SPECIAL SUGGESTION for FIRST TIME FIELD DAY HAMS....</b> please peruse last year's AAR ( <a href="https://qsl.net/nf4rc/2021/AlachuaCountyARES2021FIELDDAYAfterActionReport.pdf">https://qsl.net/nf4rc/2021/AlachuaCountyARES2021FIELDDAYAfterActionReport.pdf</a> ) to find out <i>what we did, what it was like</i>, because we are doing a similar plan this year. Experienced hams--- suggest you read it too for the "improvement items" -- maybe YOU can be the one to make a difference this year to check one more item off the list!</p>		
<b>SAFETY CONSIDERATIONS</b>		
THE PUBLIC	Publicly Accessible Site - Protect all cables, wires etc at main unit to avoid accidents from Public.	
SUN	Avoid sunburn and over-heating. Use sunscreen, cover, hats, and drink lots of Fluids	
RESTROOM	EOC Restroom; Porta Potty Restroom; Trailer Restrooms / Safe water	
OVER STRESS INJURIES	This is a FUN event. Plan ahead and limit your efforts on the day of the Event to what is SAFE for your body!! Don't hesitate to "take a break."	
Fire / Explosion / Electricity	Fire Extinguishers near Generators / Fuel. Exercise great care with fuel. Exercise great care with electrical cables. Protect connections against sitting in rainwater.	
SECURITY	Lock vehicles / structures if not attended. Avoid leaving valuable out in sight.	
<b>6. Prepared by:</b> Name: g. gibby _____ Position/Title: planning _____ Signature: /s/ _____		
<b>ICS 201, Page 1</b>	Date/Time: 6/23/2022 Update _____	

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<b>7. Current and Planned Objectives:</b>  A. Safety for All. B. Have fun and learn!  Here are some items you might personally try at this Field Day: <input type="checkbox"/> Learn how to use a slingshot or "potato rifle" <input type="checkbox"/> Make FT8 Contacts <input type="checkbox"/> Make RTTY Contacts <input type="checkbox"/> Make SSB Contacts <input type="checkbox"/> Compose, post and send a radiogram as part of our bonus points. <input type="checkbox"/> Make a contact using a band or mode you've never tried before		
<b>8. Current and Planned Actions, Strategies, and Tactics:</b>		
Time:	Actions:	
ALWAYS	DOCUMENTATION EMAIL -- SEND ALL DOCUMENTATION COPIES FOR POINTS TO DOCVACUUMTUBES@GMAIL.COM THIS IS THE EMAIL ADDRESS OF THE DOCUMENTATION UNIT FOR 2022	
April	<input checked="" type="checkbox"/> <b>PLANNING UNIT:</b> Obtain permissions for Site Location, MARC Unit Trailer, EOC Coop Effort as required -- Effort began before Feb 1. -- Delayed - E.M. indicates use EOC SITE. NOTE: Fire Chief Theus indicates MARC UNIT can easily be Assigned to this Effort.	
6 weeks in advance	<input checked="" type="checkbox"/> <b>GIBBY:</b> Find volunteers for leadership positions -- most positions filled by 4/15/2022	
6 weeks in advance	<input checked="" type="checkbox"/> Incident Commander - Register the Field Day location with the ARRL Field Day Locator Page: <a href="http://www.arrl.org/field-day-locator">http://www.arrl.org/field-day-locator</a>	

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6 weeks in advance and following	<ul style="list-style-type: none"> <li>■ PIO: PRESS RELEASES FROM COUNTY TO BE INITIATED WITHIN COUNTY PER THEIR REQUESTS</li> </ul> <p>SUGGESTIONS FROM SCOTT ROBERTS KK4ECR ARRL-NFL PIO (See his column, page 2 of NLF Section May QST - <a href="https://arrl-nfl.org/wp-content/uploads/2021/04/QST-NFL-May-2021-2.pdf">https://arrl-nfl.org/wp-content/uploads/2021/04/QST-NFL-May-2021-2.pdf</a>)</p> <ul style="list-style-type: none"> <li>• Within the next week, send out a personal invitation (not a press release) to each contact, letting them know about Field Day and inviting them to visit your Field Day site. You can attach the What is ARRL Field Day? Flier to the email.....</li> <li>• A few days to a week after sending the initial invite, follow up with key media and public officials by phone or in person to extend an invitation to Field Day. (If you are going to visit in person, it does not hurt to take a box of donuts to leave for their office.)</li> <li>• In early June, send a follow-up email to remind your contacts of the dates for Field Day and any special events you may have at your event that they may wish to attend. (Free food, special tours of your Field Day site, or any classes.)</li> <li>• About two weeks prior to Field Day, send a press release to the news desk of all your media outlets. This will help to get your event on their calendar and when assignments are given for the weekend, your event will be one of the considered events to cover.</li> <li>• NOTE: PIO has come up with a detailed publicity plan and began executing with drafts to review before May 31. Timing is dependent on media type.</li> </ul>
4 weeks in advance	<ul style="list-style-type: none"> <li>■ OPERATIONS: Confirm microwave plans for Part 15 effort -- microwave path loss to the trailer area (operations / Planning) measured in 2020 with high success. <b>Note we don't use the EOC Guest Network at all for this.</b> Note: networking with N3JP how-to from 2020 using AREDN (Par 97 operation) <a href="https://qsl.net/nf4rc/2020/HowToNetworking.pdf">https://qsl.net/nf4rc/2020/HowToNetworking.pdf</a></li> <li>■ Incident commander: Verify County Load testing performed per schedule. ARRL needs only test records. Preserve documentation to docvacuumtubes@gmail.com</li> </ul>
June 2	<ul style="list-style-type: none"> <li>■ TECH NITE - talk on FT8 for Contest Operation NFARC ZOOM 7 PM</li> </ul>
3 weeks in advance	<ul style="list-style-type: none"> <li>■ OPERATIONS: Procure the necessary logging software</li> </ul> <p>NOTE: Document explaining how to get WSJT-X/JTAlert &amp; FLDGI to log directly to N3FJP Field Day Log is here: <a href="https://www.qsl.net/nf4rc/2021/N3FJPLoggingConnectionInstructions.pdf">https://www.qsl.net/nf4rc/2021/N3FJPLoggingConnectionInstructions.pdf</a></p> <ul style="list-style-type: none"> <li>■ GIBBY Dig out the older 19V computer power supplies that don't make RFI (Gibby / Operations) Two Found</li> <li>■ OPERATIONS to provide training opportunities for use of ICOM7300 -- WEDNESDAY JUNE 15 @ EOC 12 NOON NET OPERATIONS RSVP TO GIBBY SATURDAY JUNE 18 @ GIBBY HOUSEHOLD 10 AM - RSVP TO GIBBY</li> </ul>
June 14	<ul style="list-style-type: none"> <li>■ Presentation to Alachua County Board of County Commissioners</li> </ul>
2 weeks in advance	<ul style="list-style-type: none"> <li>■ Bandpass filters are stored at the EOC. Of most benefit between 80CW/Data and 75 Phone) BUT MAY ALSO BENEFIT GOTA / MOCK STATION</li> </ul>

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WEEK BEFORE	<p> <input checked="" type="checkbox"/> <b>PIO</b> Appropriate press releases per the Alachua County media group.  <input type="checkbox"/> Please send copies of releases and/or published coverage to PLANNING SECTION for <b>BONUS POINTS</b>, to DOCUMENTATION, docvacuumtubes@gmail.com Here is an example of a PDF document we submitted one year in fulfillment of that requirement:  <a href="https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PressRelease.pdf">https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PressRelease.pdf</a> Create a similar file and submit to Documentation.  <input type="checkbox"/> <b>PIO</b> issues invitations to ELECTED GOVERNMENT OFFICIALS (city county commissioners) and SERVED AGENCY REPRESENTATIVES INCLUDING ALACHUA COUNTY SHERIFF–  <input type="checkbox"/> <b>PIO</b> COPY DOCUMENTATION (docvacuumtubes@gmail.com) on EMAIL FOR ALL INVITATIONS FOR POINTS CREDIT.  <input type="checkbox"/> <b>PIO</b> to outreach through SOCIAL MEDIA and <input type="checkbox"/> document with photo/screenshot to DOCUMENTATION (docvacuumtubes@gmail.com) Create a PDF if possible of the documentation and send to Documentation: <b>2022 ARRL Did NOT require a file upload of proof of this claimed bonus point.</b> </p> <p> <b>RELEVANT ARRL RULE TEXT: 7.3.2. Media Publicity: UPDATED for 2022: 100 bonus points may be earned for obtaining publicity from the local media. A copy of the actual media publicity received (newspaper article, etc.) must be submitted to claim the points. Any combination of bona fide media hits would qualify for the bonus points. For example, posting the details of your upcoming or ongoing Field Day activity, or your Field Day results, on a club or news media site, on Facebook, or via Twitter and Instagram would meet the bonus criteria. Available to all Classes.</b> </p>
Thursday Evening 7PM	<p> <input type="checkbox"/> Gibby/Gallup load GOLFCART and generator on trailer for Thursday arrival  <input type="checkbox"/> OPERATIONS: ZOOM TABLE TOP DRESS REHEARSAL -- ORGANIZED BY OPERATIONS                      Everyone is invited, leadership requested to attend if possible.  <a href="https://us02web.zoom.us/j/89530741792">https://us02web.zoom.us/j/89530741792</a> </p> <p> <input type="checkbox"/> Review the networking plans, and computers, passwords, etc. .                 </p>
Thursday Evening 8 PM	<p> <input type="checkbox"/> VHF NET                 </p>
FRIDAY EOC 0900	<p> <input type="checkbox"/> OPERATIONS: 0900 installation of MARC Unit, installation antennas on MARC unit and raising of the MARC Unit Tower. Possibly initial installation of GOTA station antenna in east picnic area. Make certain of available of KEY to building; access to any tables, chairs, and ability to open GATES to allow trailers in/out.                 </p>



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<p>Friday Afternoon &amp; Evening</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>LOGISTICS:</b> BUY gasoline/diesel for the generator (lets have minimum 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.</li> <li><input type="checkbox"/> <b>OPERATIONS:</b> DIGITAL BULLETIN (<b>BONUS POINT</b>) <b>OPERATIONS</b> 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 IN THAT ORDER. THEY DON'T ALWAYS SEND ALL VERSIONS</li> <li><input type="checkbox"/> <b>OPERATIONS:</b> SSB BULLETIN (<b>BONUS POINT</b>) <b>OPERATIONS</b> to coordinate having this message captured at 9:45 PM Eastern - 3.99, 7.29, 14.29 (Note the 7.29 is full AM with carrier!)</li> <li><input type="checkbox"/> Email the text of the bulletin to (<b>PLANNING SECTION EMAIL ADDRESS</b>) We have to submit the TEXT that you copied.</li> </ul> <p>PDF: <a href="https://qsl.net/nf4rc/2021/W1AWFieldDayBulletinBonusPoints.pdf">https://qsl.net/nf4rc/2021/W1AWFieldDayBulletinBonusPoints.pdf</a></p>
<p>Saturday (6/25) 8:00 – 10:00</p>	<p>SATURDAY MORNING SETUP</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>OPERATIONS</b> Setup crew <b>Check-In Station</b> at Northwest Area PIO Station 3</li> <li><input type="checkbox"/> <b>LOGISTICS</b> is in charge of delivery of all equipment -- please keep track</li> <li><input type="checkbox"/> <b>OPERATIONS:</b> Setup crew Install radios, primary and backup antennas, feedlines, tuners, logging laptops, (Primary Generator, Solar PV and emergency back-up) power, and associated equipment at Station 2, GOTA and Satellite locations.</li> <li><input type="checkbox"/> <b>OPERATIONS: Setup crew Testing:</b> Station 1 (EOC) Station 2 (Trailer) , GOTA and Satellite Radio Systems for planned bands and operating modes: CW, SSB Phone, and Digital (FT-8, FT-4, other) <b>Verify that the radios, computers, logging all works.</b></li> </ul>
<p>0800 SAFETY OFFICER</p>	<p>BONUS POINT EFFORTS AND DOCUMENTATION</p> <p>SAFETY OFFICER</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>SAFETY OFFICER:</b> Carry out reviews of safety techniques and fill out the Safety Check List -- write at the bottom that you carried it out and sign it, take photo, and send as PDF document to DOCUMENTATION</li> </ul> <p>THIS FORM IS ENCLOSED IN THIS PACKET BEFORE THE OFFICIAL FIELD DAY RULES.</p> <p>NOTE; CLASS F STATIONS MAY BE UNABLE TO RECEIVE CREDIT FOR THIS, BUT IT IS A GOOD IDEA ANYWAY.</p> <p>ARRL RULE: 7.3.17 Safety Officer Bonus: A 100-point bonus may be earned by having a person serving as a Safety Officer for those groups setting up Class A stations. This person must verify that all safety concerns on the Safety Check List (found in the ARRL Field Day Packet) have been adequately met. This is an active bonus – simply designating someone as Safety Officer does not automatically earn this bonus. A statement verifying the completion of the Safety Check List must be included in the supporting documentation sent to ARRL HQ in order to claim this bonus.</p>
<p>Saturday 6/27</p>	<p><b>SATURDAY MORNING FORMAL EDUCATION</b> (Bonus Points Activity)</p>

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	TIME / LOCATION	TOPIC	INSTRUCTOR
10:30 12 Noon	1030 MARC UNIT	Purpose, use & capabilities of the MARC Unit	District Fire Chief Kevin Rulapaugh KE4NVI NCS180
	1100 / EOC CONFERENCE	Disaster Outbound H&W Traffic Management	Gordon Gibby
		Write radiograms to get the BONUS POINTS	
	1120 / EOC CONFERENCE	Common Mode RF Interference, Measurement & Mitigation	Gordon Gibby
	1140 / EOC CONFERENCE	2022 SOLAR POWER Field Day Systems	Earl McDow / Amy Woods
12:00-13:00	<p><b>BREAK AND LUNCH AFTER SETUP</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> OPERATIONS: Lunch @ Waldo Road Sunnys.</li> <li><input type="checkbox"/> SECURITY DURING LUNCH: Gordon Gibby</li> </ul>		
13:00	<p>COME BACK AND GET EVERYTHING READY!</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> OPERATIONS: Shift Change &amp; Briefing prior to beginning of Field Day operations</li> <li><input type="checkbox"/> OPERATIONS: Set logging to proper location; set exchanges to proper exchanges</li> <li><input type="checkbox"/> OPERATIONS: Begin the Incident Command Post staffing</li> <li><input type="checkbox"/> OPERATIONS: Participants Check-In at Northwest Area Command Post. Non Badged personnel can work anywhere in the Northwest Area. Badged personnel can additionally work at the inside EOC station #1.</li> </ul>		
2 PM SAT START!	<p>FIELD DAY START!</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>PARTICIPANTS:</b> Operators work in <b>pairs</b> whenever possible (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, GOTA Station 3, and optionally at Satellite Station 4.</li> <li><input type="checkbox"/> OPERATIONS publishes a WATERPROOF schedule of signups for operating, available at the Site or Sites.</li> <li><input type="checkbox"/> FT8 logs automatically. You will probably need to log PSK31, RTTY, CW, or SSB contacts using the logging computer yourself.</li> <li><input type="checkbox"/> <b>Keep it to two transmitters that "count" maximum at all times.</b> One VHF and One Satellite radio are "free" "Groups are allowed one dedicated satellite transmitter station without increasing their entry category"</li> <li><input type="checkbox"/> We use 2M walkie talkies (see ICS-205) for coordination. You can also see what band the other station is operating on via the Logging Software -- be careful to set this properly!</li> </ul>		

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### OPERATIONS: SPECIFIC BONUS POINT EFFORTS AND DOCUMENTATION

OPER-  
ATIONS  
DUTIES

TIME	EFFORT
Before Field Day	<input type="checkbox"/> <del>Obtain documentation of EOC generator testing, put in PDF document, and send to documentation unit. (100 points, with previous waiver from ARRL obtained)</del> <i>Note: 2022 ARRL did not require a file upload - instead, make documentation and provide to the documentation unit in case there are questions.</i>
11 AM	<input type="checkbox"/> <del>Educational Courses - document, with list of attendees and topics, send in PDF document to documentation unit. (100 points)</del> <i>Note: 2022 ARRL did not require a file upload - make sufficient documentation and provide to the documentation unit in case there are questions.</i>
2 PM	<input type="checkbox"/> Document solar power battery level and begin charging, avoid RFI to Field Day Stations. Insert into PDF solar power document
2 PM	<input type="checkbox"/> Photograph of solar power charging, insert into same PDF solar power document
5 PM approx	<input type="checkbox"/> Document total battery charging and insert into PDF solar power document -- send completed document to documentation unit.
6 PM approx	<input type="checkbox"/> Document at least 5 contacts performed using solar power batteries. Create permanent record of those contacts, insert into PDF document and send to documentation unit (100 points) <b><i>Note: 2022 ARRL requested a file providing documentation of the minimum 5 contacts made via alternative power.</i></b>
8 PM approx	<input type="checkbox"/> <b><u>Shut down VHF 6M station in NW Grassy area</u></b> first and switch VHF operations to EOC 2M Data station to send Winlink RRI Radiograms to Section Manager (or Section Emergency Coordinator) with a copy to <a href="mailto:docvacuumtubes@gmail.com">docvacuumtubes@gmail.com</a> <b><i>Note: 2022 ARRL did require an upload of documentation.</i></b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                     Section Emergency Coordinator Arc Thames W4CPD phone 850 889 3767 email <a href="mailto:arc.thames@srcares.org">arc.thames@srcares.org</a> P. O Box 961 Milton Florida 32572                       Winlink cc: to <a href="mailto:docvacuumtubes@gmail.com">docvacuumtubes@gmail.com</a> </div> <ul style="list-style-type: none"> <li>Originated by NF4AC</li> <li>Includes CLUB NAME</li> <li>Includes NUMBER OF PARTICIPANTS</li> <li>Includes Field Day Location</li> <li>Includes Number of ARES operators involved</li> </ul> <p>See: <a href="https://qsl.net/nf4rc/2021/SectionManagerMessage.pdf">https://qsl.net/nf4rc/2021/SectionManagerMessage.pdf</a> (100 points)</p>
8:15 PM approx	<input type="checkbox"/> <b>Shut down free VHF station in NW Grassy Area temporarily</b> and Send 10 radiograms generated earlier in the day, from EOC 2M data station, <b><u>originated from NF4AC</u></b> , with copies to <a href="mailto:docvacuumtubes@gmail.com">docvacuumtubes@gmail.com</a> , for 10 points each. <b><i>Note: 2022 ARRL did</i></b>



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**require upload of a file documenting performance of this item.**  
(100 points)

Resume NW 6M VHF Station operation after completion of radiograms.

**PDF Documents:**

- <https://qsl.net/nf4rc/2021/AlternatePowerBonusPoints.pdf>
- <https://qsl.net/nf4rc/2021/EducationalActivityBonusPoints.pdf>
- <https://qsl.net/nf4rc/2021/EmergencyPowerBonusPoints.pdf>
- <https://qsl.net/nf4rc/2021/SectionManagerMessage.pdf>
- <https://qsl.net/nf4rc/2021/MessageHandlingBonusPoints.pdf>

**ODT Documents:**

- <https://qsl.net/nf4rc/2021/EducationalActivityBonusPoints.odt>
- <https://qsl.net/nf4rc/2021/EmergencyPowerBonusPoints.odt>
- <https://qsl.net/nf4rc/2021/SectionManagerMessage.odt>
- <https://qsl.net/nf4rc/2021/MessageHandlingBonusPoints.odt>
- <https://qsl.net/nf4rc/2021/AlternatePowerBonusPoints.odt>

**PIO: SPECIFIC BONUS POINT EFFORTS AND DOCUMENTATION**

PIO Specific Duties

TIME	EFFORT
PRIOR	<p><input checked="" type="checkbox"/> Invite Representatives of Served Agency to Field Day effort, <del>copy to documentation unit.</del> (Invitation issued by email by G.Gibby 6/3/22, copy saved in Bonus Point Documentation Folder. ) See: <a href="https://qsl.net/nf4rc/2021/AgencyRepresentativeBonusPoints.pdf">https://qsl.net/nf4rc/2021/AgencyRepresentativeBonusPoints.pdf</a> <b>Note: 2022 ARRL did NOT require a file documentation to obtain this credit.</b></p>
PRIOR	<p><input type="checkbox"/> <b>Invite</b> at LEAST ONE ELECTED GOVERNMENT OFFICIAL and document both the invitation <b>and the visit</b> with a <del>PDF FILE</del> including a photo or written statement, send to <del>DOCUMENTATION</del> with an appropriate subject line. <b>Note: 2022 ARRL did NOT require an uploaded file with proof of the invitation and visitation.</b> Encouraged to mentor up and coming PIO members by involving them in this processing Elected Officials include SHERIFF, CITY AND COUNTY COMMISSIONERS</p>
2 PM	<p><input type="checkbox"/> <del>Take photo documenting PUBLIC ACCESSIBLE LOCATION,</del> put in a PDF document and send to documentation unit. <del>(Photo of visitor center from road)</del> <b>Note: 2022 ARRL did NOT require a file upload to document publicly accessible location.</b> See: <a href="https://qsl.net/nf4rc/2021/PublicLocationBonusPoints.pdf">https://qsl.net/nf4rc/2021/PublicLocationBonusPoints.pdf</a></p>
2 PM	<p><input type="checkbox"/> PIO to send photos documenting PUBLIC INFORMATION TABLE (Demo Station) for <b>Bonus Points</b>, with appropriate subject line to <b>DOCUMENTATION EMAIL</b> <b>FILE UPLOAD REQUIRED TO OBTAIN THIS BONUS POINT.</b> Here is an example of a PDF that we submitted one year in fulfillment of that requirement:</p>

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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td> <a href="https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf">https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf</a> Create a similar PDF and submit to Documentation so it can be submitted.         </td> </tr> <tr> <td>PRIOR / AFTER</td> <td> <input type="checkbox"/> Publicity Bonus Points now require documentation of outreach to media and proof of subsequent media publication. <b><i>(A file has to be uploaded to ARRL with proof.)</i></b> Publications from our own County media unit may qualify, as well as newspaper, TV, radio. Document all efforts and subsequent publications in a PDF document and send to documentation unit.         </td> </tr> </table>		<a href="https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf">https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf</a> Create a similar PDF and submit to Documentation so it can be submitted.	PRIOR / AFTER	<input type="checkbox"/> Publicity Bonus Points now require documentation of outreach to media and proof of subsequent media publication. <b><i>(A file has to be uploaded to ARRL with proof.)</i></b> Publications from our own County media unit may qualify, as well as newspaper, TV, radio. Document all efforts and subsequent publications in a PDF document and send to documentation unit.
	<a href="https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf">https://qsl.net/nf4rc/2020/FieldDayBonusPoints/PublicInformationTable.pdf</a> Create a similar PDF and submit to Documentation so it can be submitted.				
PRIOR / AFTER	<input type="checkbox"/> Publicity Bonus Points now require documentation of outreach to media and proof of subsequent media publication. <b><i>(A file has to be uploaded to ARRL with proof.)</i></b> Publications from our own County media unit may qualify, as well as newspaper, TV, radio. Document all efforts and subsequent publications in a PDF document and send to documentation unit.				
<p>PDF Documents:</p> <p> <a href="https://qsl.net/nf4rc/2021/PublicInformationTableBonusPoints.pdf">https://qsl.net/nf4rc/2021/PublicInformationTableBonusPoints.pdf</a>  <a href="https://qsl.net/nf4rc/2021/ElectedOfficialBonusPoints.pdf">https://qsl.net/nf4rc/2021/ElectedOfficialBonusPoints.pdf</a>  <a href="https://qsl.net/nf4rc/2021/AgencyRepresentativeBonusPoints.pdf">https://qsl.net/nf4rc/2021/AgencyRepresentativeBonusPoints.pdf</a> </p>					
<p>Get On The Air Station (GOTA)</p> <p>ARRL Rule:</p> <p style="margin-left: 40px;">4.1.1.2. The GOTA station may be operated by any person licensed since the previous year's Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.</p> <ul style="list-style-type: none"> <li>• Any person licensed since the previous year's Field Day.</li> <li>• Generally inactive licensee</li> <li>• Non-licensed persons under the direct supervision of an appropriate control operator</li> <li>• Required list of operators and participants must be submitted.</li>   <li>• Uses different callsign than the parent station, and must use the SAME callsign throughout the event.</li> <li>• Uses the same EXCHANGE as the Parent (in our case, 2F NFL)</li> </ul>					

## INCIDENT BRIEFING (ICS 201)

Satellite Unit 14:00 – 00:00	<p>BONUS POINT EFFORTS AND DOCUMENTATION -- NOT EXPECTED THIS YEAR SATELLITE UNIT OF OPERATIONS</p> <p>EXCHANGE IS 2F NLF</p> <p><input type="checkbox"/> <b>OPERATIONS:</b> SATELLITE: BONUS POINTS Satellite QSO: 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. "General Rules for All ARRL Contests" (Rule 3.7.2.), (the no-repeater QSO stipulation) is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit unless prohibited under Rule 7.3.7.1. The QSO must be between two Earth stations through a satellite. Available to Classes A, B, and F. 7.3.7.1 Stations are limited to one (1) completed QSO on any single channel FM satellite. OPERATIONS to have this accomplished and documented by having appropriately documented <b>LOG ENTRIES</b> sent to DOCUMENTATION. The group is encouraged to make this a teaching moment!</p> <p>PDF: <a href="https://qsl.net/nf4rc/2021/SatelliteQSOBonusPoints.pdf">https://qsl.net/nf4rc/2021/SatelliteQSOBonusPoints.pdf</a></p> <p>ODT: <a href="https://qsl.net/nf4rc/2021/SatelliteQSOBonusPoints.odt">https://qsl.net/nf4rc/2021/SatelliteQSOBonusPoints.odt</a></p>
2000 SATURDA Y	<input type="checkbox"/> OPERATIONS: Shift Change & Briefing
WEE HOURS of SUNDAY	<input type="checkbox"/> Operation in the middle of the night is at the discretion of <b>Operations</b> based on available volunteer. We may be having so much fun that we can't stop these people! I suggest that representatives from the General Staff meet and assess operations of the stations (a) within the first few hours; (b) in the evening, to determine overnight options. (Suggestion only).
0800 Sun	<input type="checkbox"/> OPERATIONS: Shift Change and Briefings
SUNDAY LUNCH	<input type="checkbox"/> <b>Expect a wonderful Buffet courtesy of Emily!</b> HOTWASH DISCUSSION/MEAL
Sunday 1400	<p>CONCLUSION OF OUR FIELD DAY EFFORT</p> <p><input type="checkbox"/> <b>Documentation Unit</b> gathers ALL documentation for filing. In general everything other than the logging computers should be emailed in the text or in an attachment to <b>DOCUMENTATION EMAIL</b></p> <p><input type="checkbox"/> <b>OPERATIONS:</b> Tear down crew 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, GOTA and Satellite locations.</p> <p><input type="checkbox"/> <b>OPERATIONS:</b> Tear down crew cleans Northwest Area grounds and EOC Radio room areas.</p> <p><input type="checkbox"/> <b>LOGISTICS</b> moves gear back to proper storage locations</p>
Sunday/ Monday	<p>FIELD DAY SUBMISSION</p> <p><input type="checkbox"/> Documentation Unit (Planning Section) files contest results with ARRL electronically</p>

## INCIDENT BRIEFING (ICS 201)

	<input type="checkbox"/> Documentation Unit obtains EMAIL or CONFIRMATION of submission and forwards to Incident Commander
	<input type="checkbox"/> Brett Wallace NH2KW writes up report of operation, with input from all other sections
<b>6. Prepared by:</b> Name: _____ Position/Title: _____ Signature: _____	
ICS 201, Page 2	Date/Time: Updated 6/23/2022_____



## INCIDENT BRIEFING (ICS 201)

<b>1. Incident Name:</b> <b>NFARC 2022 Field Day</b>	<b>2. Incident Number:</b>	<b>3. Date/Time Initiated:</b> Date: Time:
---	----------------------------	---

**10. Resource Summary:**

Resource	Resource Identifier Volunteer Providing	Date/Time Ordered Volunteer Transporting	ETA (Requested Arrival)	Arrived
----------	--	---	-------------------------	---------

**A. PIO / VISITOR RECEPTION / TRAILER- Preferably by the entrance and with cover / trailer / air conditioning / fans [side to side RV Trailers w/ Awnings extended toward each other)**

SIGNAGE	See Administrative Packet	Hang from Tables	Saturday	<input type="checkbox"/>
Brochures	Jeff Capehart		Saturday	<input type="checkbox"/>
Vistors Log	Jeff Capehart or Admin Packet		Saturday	<input type="checkbox"/>
Waterproof cover for brochures	Jeff Capehart		Saturday	<input type="checkbox"/>
Chairs	2 chairs - Gordon ADDITIONAL NEEDED		Saturday	<input type="checkbox"/>
Two fold-up Tables	Gordon Gibby	Gordon Gibby	Saturday	<input type="checkbox"/>
Ground Mat	??		Saturday	<input type="checkbox"/>
Fans	??		Saturday	<input type="checkbox"/>
Golf Cart for Dignitaries	Leland Gallup	Gordon/Leland	Fri/Saturday	<input type="checkbox"/>
26 FOOT TRAILER	AMY W.	AMY W.	SATURDAY	<input type="checkbox"/>
GOTA/MOCK STATION CALL <b>NF4RC (Sat afternoon will operate from Sprinter)</b>	AMY W.	AMY W	SATURDAY	<input type="checkbox"/>
COAX TO 2ND HF ANENNA	DAVID FOX	DAVID FOX	SATURDAY	<input type="checkbox"/>
EXGTENSION CORDS TO DIESEL	HUCKSTEP / LORILYN R.	HUCKSTEP/ LORILYN R.	SATURDAY	<input type="checkbox"/>

**B. INCIDENT COMMAND POST -- Off to North from Welcome Visitors Station**

SIGNAGE	See Administrative Packet	Post or Hang	SATURDAY	<input type="checkbox"/>
Logging Computer WIN10BKUP	Logging computer Unit Leader	Gibby	SATURDAY	<input type="checkbox"/>
Table & Chair	KK4INZ	KK4InZ	SATURDAY	<input type="checkbox"/>
Canopy 10x10	KK4INZ	KK4INZ	Saturday	<input type="checkbox"/>
Office Supplies	Craig Fugate	Craig Fugate	Saturday	<input type="checkbox"/>
One computer	Craig	Craig	Saturday	<input type="checkbox"/>
Extension cord to trailer area	Craig	Craig	Saturday	<input type="checkbox"/>



## INCIDENT BRIEFING (ICS 201)

### C. HF STATION #1 (EOC)

SIGNAGE	Administrative Packet	Post	Saturday	<input type="checkbox"/>
Existing Icom 7300 / computers -	DONE	DONE	DONE	<input checked="" type="checkbox"/>
Software on Logging Computer	Logging Computer Unit Leader	DONE Gordon Gibby	by Friday evening	<input checked="" type="checkbox"/>
PLACARD - Callsign / Exchange	DONE	DONE	DONE	<input checked="" type="checkbox"/>
USB EMERGENCY BOOT FLASHDRIVE	Logging Computer Unit Leader	Gordon Gibby	by Friday evening	<input checked="" type="checkbox"/>
External mouse - fresh battery	DONE	DONE	DONE	<input checked="" type="checkbox"/>

### D. MICROWAVE & WIFI NETWORKING - including power sources

Required Ubiquity Stations	NETWORK UNIT LEADER	EARL	FRI EVENING	<input type="checkbox"/>
Two UPS Systems	Gordon	Gordon	FRI Evening	
1- EOC Ubiquity & WIFI 2- NW Grassy Field Ubiquities and WIFI				<input type="checkbox"/>
RAIN PROTECTION for the NW Grassy Field WIFI ? Plastic bag versus clear tote??	Gordon / Earl			<input type="checkbox"/>
ASSOCIATED EQUIPMENT (computers, etc)	OTHER VOLUNTEERS		<b>DONE</b> DELIVER TO EARL >1WK EARLIER	<input checked="" type="checkbox"/>

### E. RV TRAILER STATION (HF#2)

SIGN AT STATION	See Administrative Packet	Post on Trailer (waterproof)	Saturday	<input type="checkbox"/>
24 FOOT TRAVEL TRAILER WITH ANTENNA MAST AND GROUND WIRE	GORDON GIBBY	GIBBY	SATURDAY	<input type="checkbox"/>
ANTENNA - OCF DIPOLE (Huckstep Antenna)	Station 2 Antena Unit Leader	GIBBY	SATURDAY	<input type="checkbox"/>
COAX (RG8X or better) to MARC UNIT	Gibby - 100 feet 8X McDow - 100 feet 8X	Gibby McDow	Saturday	<input type="checkbox"/>
RADIO - Icom 7300	GORDON GIBBY	GIBBY	ARRIVES WITH TRAILER SAT	<input type="checkbox"/>
COMPUTER / MOUSE / ETC	LOGGING UNIT LEADER	Gordon Gibby	ARRIVES WITH TRAILER SAT	<input type="checkbox"/>
USB EMERGENCY BOOT FLASHDRIVE	Logging Computer Unit Leader	Gordon Gibby	by Friday evening	<input type="checkbox"/>
EXTENSION CORDS TO DIESEL GENERATOR	GIBBY & BLEDSOE	GIBBY & BLEDSOE	SATURDAY	<input type="checkbox"/>

## INCIDENT BRIEFING (ICS 201)

### F. FREE VHF STATION - Brett's Trailer

SIGNAGE	See Administrative Packet	Post at Motorhome (waterproof)	Saturday	<input type="checkbox"/>
RV TRAILER	BRETT	Brett	Saturday	<input type="checkbox"/>
RADIO	FUGATE & Brett		Saturday	<input type="checkbox"/>
6 Meter Antenna	Bledsoe	Bledsoe	Saturday	<input type="checkbox"/>
THICK COAX, TRANSMISSION Line to MARC UNIT	Gibby Bledsoe Huckstep & FUGate -all have thick coax	Each individual	Saturday	<input type="checkbox"/>
EXTENSION CORDS TO GENERATOR	SUSAN H. AND CRAIG F.	SUSAN H. AND CRAIG FUGATE	SATURDAY	<input type="checkbox"/>

### G. SATELLITE STATION (Another Free Station) [Not likely this year?]

SATELLITE STATION (FREE STATION)	Operations - Satellite	Operations - Satellite		<input type="checkbox"/>
2+ HT's with spare batteries (one for uplinkg, one for Downlink)				<input type="checkbox"/>
Arrow II antenna w/duplexer (not used)				<input type="checkbox"/>
W1ANT satellite tracking app on Android phone// recorder.				<input type="checkbox"/>
Yaesu 991a / 20 meter center fed dipole, power supplies				<input type="checkbox"/>
CANOPY / TABLE / CHAIRS AS NEEDED -- Ron works out of his truck so this may not be necessary				<input type="checkbox"/>
EZ tent to bring and a folding table with chairs to set up a display				<input type="checkbox"/>
Yagi, couple of radios and paraphenalia and laptop				<input type="checkbox"/>

### H. SOLAR POWER SYSTEM

Bluetti folding solar panels	Amy Woods	Amy Woods	Saturday	<input type="checkbox"/>
Bluetti or other storage system	Amy Woods	Amy Woods	Arrives with Trailer on SAT	<input type="checkbox"/>
RFI-Filtered 115 VAC Inverter for Computer	Solar Power Unit Leadeer	Gordon Gibby	Arrives with Trailer on SAT	<input type="checkbox"/>
Backup 100-watt solar power panel(s) each with built in MPPT controller.	Gibby	Gibby	Arrives with Trailer on SAT	<input type="checkbox"/>

## INCIDENT BRIEFING (ICS 201)

<b>I. NETWORKING WITHIN NW GRASSY AREA (See D above)</b>				
Networking Ubiquity TRANSCEIVER on pole by fence for for NW grassy Area – if significant logging needs (d by station other than RV, an additional mesh transceiver may be needed)	OPERATIONS Network Asst.	OPERATIONS Network Asst.	Week Before	<input type="checkbox"/>
WIFI Tenda Home Router with power supply inside waterproof container of some sort, with some sort of power system from Trailer or separate	Gordon/ Earl	Gordon Gibby	Week Before	<input type="checkbox"/>
<b>J. POP UP TRAILER Congregating Area</b>				
Pop Up Trailer	David Fox	David Fox	Saturday	<input type="checkbox"/>
Fans / Lights	??	??	Saturday	<input type="checkbox"/>
Extension Cords to Generator	Earl McDow Duke Bailes	McDow Bailes	Saturday	<input type="checkbox"/>
<b>K. SANITARY FACILITIES</b>				
PORTA POTTY 1 facility Dampiers --	Incident Commander <b>(Typically Dampier's and delivered Friday) ORDERED!</b>	Dampier's / Huckstep	ARRIVE: FRIDAY THRU SUNDAY MINIMUM.	<input type="checkbox"/>
Purell or Equivalent	Rosemary		FRIDAY-SUNDAY	<input type="checkbox"/>
LIGHTING AS DESIRED FOR OUTSIDE / INSIDE	??		SATURDAY	<input type="checkbox"/>
<b>L. DIESEL AND GASOLINE FUEL</b>				
Gasoline containers & fuel	??	Volunteers	Saturday	<input type="checkbox"/>
Diesel containers & Fuel	Gibby & other volunteers	Gibby & other volunteers	Saturday	<input type="checkbox"/>
Fire Extinguisher	David Huckstep	Huckstep	Saturday	<input type="checkbox"/>
<b>M. REMOTE GOTA STATION NF4RC</b>				
SIGNAGE	Administrative Packet	Post on vehicle	Saturday	<input type="checkbox"/>

## INCIDENT BRIEFING (ICS 201)

Vehicle (car, truck, van)	SAT PM: Brett's Sprinter OTHER: Amy's Trailer	Brett / Amy	Saturday	<input type="checkbox"/>
ICOM 7300 / tuner	Amy - Gobox	Amy	Saturday	<input type="checkbox"/>
Laptop to control, configured with remoting software	Lenovo 430	Earl	Saturday	<input type="checkbox"/>
LIFEPO4 batteries x3 from EOC	23 AHR x up to 3	EOC	In EOC (Sat)	<input type="checkbox"/>
Possible other batteries			As needed	<input type="checkbox"/>
RFI-filtered inverter to run laptop (pwrpole input)	GordonGibby	Gordon Gibby	Saturday	<input type="checkbox"/>
MESH transceiver	Earl	Earl	Saturday	<input type="checkbox"/>
Optional Fuse Box to accomodate batteries in parallel if needed???	Gordon Gibby BUILT!!	Gordon	Saturday	<input type="checkbox"/>
<del>130 Foot OCFD</del> —65ft OCFD	<del>Gordon Gibby</del> Dave W4JIR	<del>Gordon</del> Dave W4JIR	Saturday	<input type="checkbox"/>
Coaxial cable to anenna in picnic area - RG8X 100 ft	Leland Gallup	l/eland Gallup	Saturday	<input type="checkbox"/>

**6. Prepared by:** Name: Gibby\_\_\_\_\_ Position/Title: \_\_\_\_\_ Signature: \_\_\_\_\_

**ICS 201, Page 4**

Date/Time: UPDATED 6/23/2022

## INCIDENT BRIEFING (ICS 201)

### INCIDENT ACTION PLAN APPENDICES:

#### DETAILED INFORMATION FOR SPECIFIC AREAS

APPENDIX ONE	Field Day Safety Officer Checklist	
APPENDIX TWO	Measured Antenna Interactions, 2020 (Technical)	
APPENDIX THREE	Microwave Networking System	
APPENDIX FOUR	Friday MARC Unit Tower Raising Equipment Plan	
APPENDIX FIVE	Grassy Field Layout Plan Includes: List of Volunteer Assets (organized by type of equipment)	
APPENDIX SIX	ICS-205	
APPENDIX SEVEN	ARRL Field Day Rules	
APPENDIX EIGHT	Operator Schedule	
APPENDIX NINE	What each participant is bringing	
APPENDIX TEN	N3FJP CW specialized settings	
APPENDIX ELEVEN	Mitigation Strategies for Interference between stations	
APPENDIX TWELVE	Electromagnetic Exposure Calculations	
APPENDIX THIRTEEN	Suggested Incident Command Post Activities	

# INCIDENT BRIEFING (ICS 201)

## APPENDIX ONE

### ARRL Field Day Safety Officer Checklist

Note these Points are not available for Class F Entries

To qualify for the 100-point Safety Officer bonus (for Class A stations), a group must appoint a qualified person/s who are present at their site from the beginning of set-up until the end of break-down.

This form is NOT intended to be all inclusive.

The Safety Officer/s certify by submitting this form that due diligence was made to provide a safe operation.

---

[check (or circle) any/all that apply]

- Safety Officer/s or qualified designated assistant/s was on site for the duration of the event.
- Fuel for generator properly stored.
- Fire extinguisher on hand and appropriately located.  First Aid kit on hand.
- First Aid - CPR - AED versed else trained participant/s on site for full Field Day period.
- Access to NWS alerts to monitor for inclement weather.
- Tent stakes properly installed and marked.
- Temporary antenna structures properly secured and marked.
- Site secured from tripping hazards.
- Site is set up in a neat and orderly manner to reduce hazards.
- Stations and equipment properly grounded.
- Access to a means to contact police/fire/rescue if needed.
- Safety Officer is designated point of contact for public safety officials.
- Minimize risks and control hazards to ensure no injuries to public.
- As necessary, monitoring participants for hydration and ensuring an adequate water supply is available.

---

signature(s) / call(s)

date

Revised 3/2021



# INCIDENT BRIEFING (ICS 201)

## APPENDIX TWO

### MEASURED ANTENNA INTERACTIONS 2020 EOC FIELD DAY

Power level in dBm sent to the EOC Chigger antenna on each band was known, the power level in dBm received on the End Fed multiband antenna approx 25-30 feet height was measured at the NW Grassy corner, and the total path loss was calculated by subtracting.

Measured Antenna Interactions	
80 meters	-70 dB
40 meters	-80 dB
20 meters	-100 dB

For example, if +50 dBm were transmitted at the EOC (100 Watts output), the received signal at the receiver terminals on the SAME FREQUENCY on 80 meters would be  $50\text{dBm} - 70\text{ dB} = -20\text{dBm}$

That results in a 22 millivolt RMS signal on a 50 ohm connection, which is a very loud signal (52 dB above S9 on a typical receiver) but it is nowhere close to a voltage necessary to even cause a diode to conduct (0.6 V) much less do any damage to an input device.

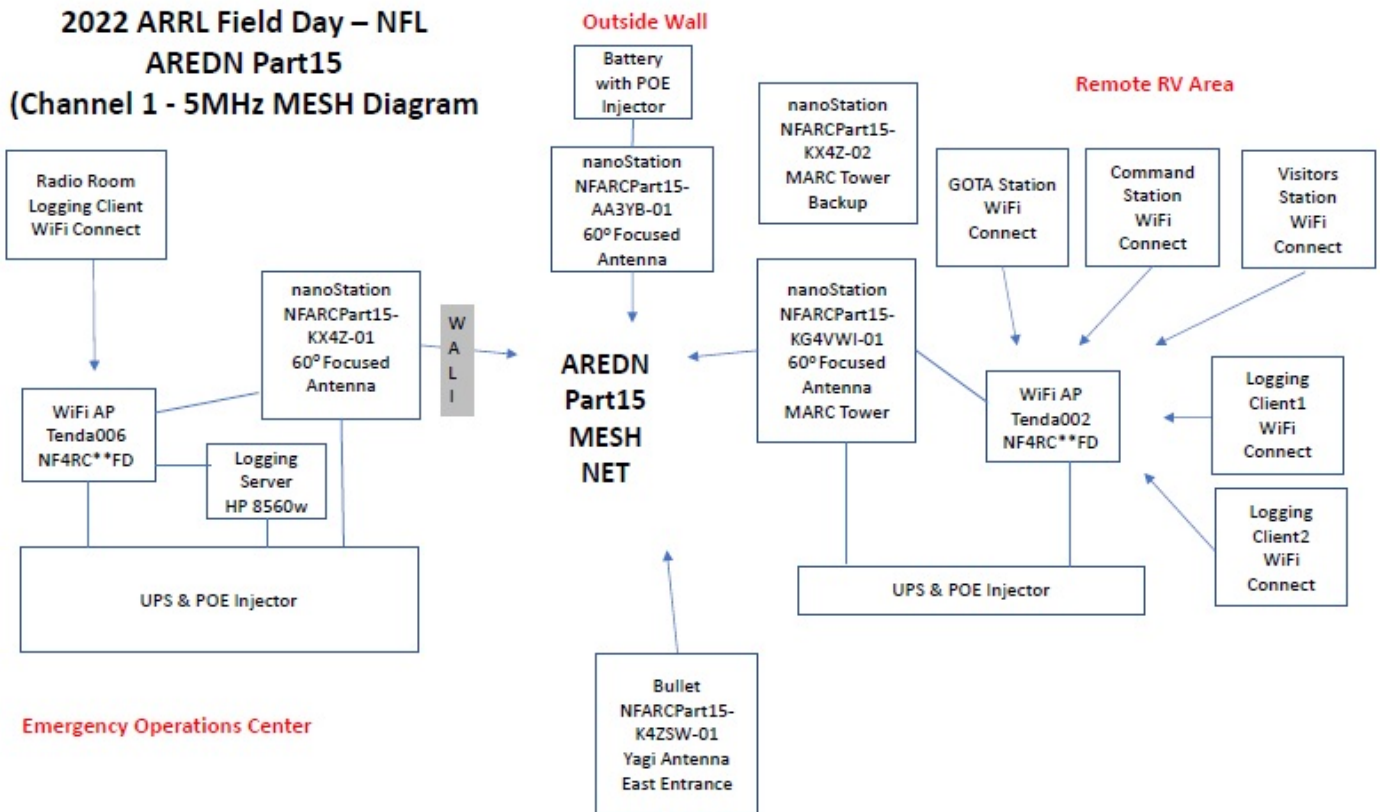
We also tested listening on the 2nd harmonic band, to a transmitter on the band below at the opposite station, using the bandpass filters, and could hear NO DESENSING of the radio.

# INCIDENT BRIEFING (ICS 201)

## APPENDIX THREE -- Microwave System 2022

NF4AC Field Day Contest Log Registration #: **33532** (Main 2F group)

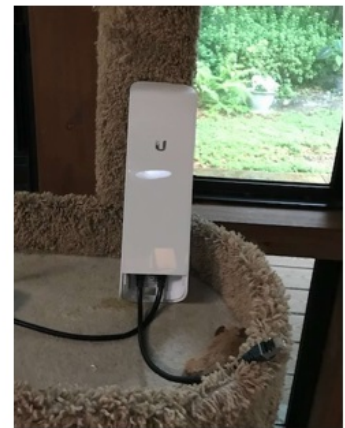
NF4RC Field Day Contest Log Registration #: **35249** (GOTA Station Callsign)



Yaggi Bullet Node  
Battery Powered



Omni Bullet Node  
AC Powered POE



nanoStation Node 60 degree

# INCIDENT BRIEFING (ICS 201)

## 2022 ARRL Field Day NFL – MESH Node Locator

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)

**KG4VWI-01** MESH Node – Tenda002 WAP  
**KX4Z-02** MESH Node Backup



**AA3YB-01** MESH Node

**K4ZSW-01** MESH Bullet East Entrance

**KX4Z-01** MESH Node Tenda006 HP 8560w Log-Server

Logging Client

## 2022 ARRL Field Day North Florida – MESH & LAN Network Details

### NFARCPart15-KX4Z-01:

NanoStation at EOC inside  
MESH IP: 10.90.61.41  
LAN IP: 10.163.210.145  
Power: 28dBm  
Channel 1 (2412) CW: 5MHz  
SSID: AREDN  
Firmware: 3.22.1.0 (XW)

### NFARCPart15-KG4VWI-01:

NanoStation at MARC Tower  
MESH IP: 10.184.198.187  
LAN IP: 10.140.107.177  
Power: 28dBm  
Channel 1 (2412) CW: 5MHz  
SSID: AREDN  
Firmware: 3.22.1.0 (XW)

### NFARCPart15-KX4Z-01:

NanoStation at EOC inside  
MESH IP: 10.90.61.41  
LAN IP: 10.163.210.145  
Power: 28dBm  
Channel 1 (2412) CW: 5MHz  
SSID: AREDN  
Firmware: 3.22.1.0 (XW)

### NFARCPart15-AA3YB-01:

nanoStation at EOC outside fence  
MESH IP: 10.224.111.87  
LAN IP: 10.6.245.113  
Power: 28dBm  
Channel 1 (2412) CW: 5MHz  
SSID: AREDN  
Firmware: 3.20.3.0 (XW)

### NFARCPart15-KX4Z-02:

NanoStation at MARC Tower Backup  
MESH IP: 10.90.61.41  
LAN IP: 10.163.210.145  
Power: 28dBm  
Channel 1 (2412) CW: 5MHz  
SSID: AREDN  
Firmware: 3.22.1.0 (XW)

### WiFi Access Points PW:NF4RC\*\*FD

Tenda006 (EOC):  
Tenda002 (RV Area)

## INCIDENT BRIEFING (ICS 201)

More Detailed Information on IP Numbers:

Unit	IP Numbers	Comment
<b>INSIDE THE EOC</b>		
EOC Inside Ubiquity NFARCPart15-KX4Z-01	Microwave side: 10.90.61.41  LAN (Wired Ethernet) side: 10.163.210.45	DHCP Enabled Configured to provide 13 IP's  Reservations:
EOC TENDA WIFI Access Point <b>Tenda006</b>	(This unit merely connects wifi packets with wired ethernet packets to the EOCInsideUbiquity.	Password NF4RC**FD
EOC Volunteer HP Elite Book (Right side)		Obtains IP via DHCP
EOC logging server 8560Computer NAME: <b>Log-Server</b>		Obtains IP via DHCP UPS POWER BACKUP
<b>MESH RELAY OUTSIDE EOC</b>		
EOC Outside Ubiquity (fence) <b>NFARCPart15-AA3YB-01</b>	Microwave Mesh IP: 10.224.111.87 Ethernet wired IP (not used) 10.6.245.113	
<b>NW GRASSY FIELD</b>		
NW Field Ubiquity - top tower <b>NFARCPart15-KG4VWI-01</b>	Microwave Mesh IP: 10.184.198.187 Ethernet wired IP: 10.140.107.177	DHCP Enabled Configured for 13 IP Numbers  Reservations:  <input type="checkbox"/> Needs UPS Backup
NW Field Ubiquity - optional backup <b>NFARCPart15-KX4Z-02</b>	Microwave Mesh IP: 10.90.61.41 Ethernet wired IP: 10.163.210.145	DHCP Enabled Configured for 5 IP Numbers  Reservations:  <input type="checkbox"/> Needs UPS Backup
TENDA NW Field ACCESS POINT	This WIFI is merely a bridge between the wired ethernet from	Password: NF4RC**RC



## INCIDENT BRIEFING (ICS 201)

<b>Tenda002</b>	one of the ubiquities, and the WIFI world of the NW Grassy Field where there are at least five computers connecting	<input type="checkbox"/> This unit will need RAIN PROTECTION and a battery backup.
STN#2 HP Elitebook laptop (Gordon's)		obtains IP via DHCP
VHF Stn laptop Lenovo 430		Obtains IP via DHCP
Laptop for David Fox <i>Either his own, or we share Gordon Elitebook laptop</i>		Obtains IP via DHCP
Visitors Welcome Computer (with monitor) ASUS 2Gbyte slow computer Gordon's external monitor		Obtains IP via DHCP
Incident Comm. NF4AC Monitor laptop Fugate computer		Obtains IP number by DHCP
Incident Comm. NF4RC Monitor laptop "Win10Backup"		Obtains IP number by DHCP
EAST ENTRANCE (temporary GOTA)		
Bullet Ubiquity NFARCPart15-K4ZSW-01 (Yagi Antenna)	Microwave Mesh IP: 10.120.10.1.110 (?- difficult read) Wired Ethernet 10.128.22.225	Provides 13 IP numbers via wired ethernet Connects to laptop by wired ethernet.
GOTA Stn Laptop Earl's Silver HP (operates as NF4RC GOTA server)	This station uses wired ethernet to connect to Bullet Ubiquity and obtain IP number.	Station will join NW Grassy field when operations on east side are completed

INFORMATION ON CONNECTING WSJT-X AND FLDGI TO N3FJP FIELD DAY LOGGING SOFTWARE: <https://www.qsl.net/nf4rc/2021/N3FJPLoggingConnectionInstructions.pdf>

A networking how-to document from the 2020 Field Day can be viewed here: <https://qsl.net/nf4rc/2020/HowToNetworking.pdf> This includes discussion of firewall rules so that ping and telnet can be used if needed.

# INCIDENT BRIEFING (ICS 201)

## APPENDIX FOUR: FRIDAY TOWER RAISING

SITE PLAN:



Item being installed	Person Bringing	Backup item?	Comment
MARC Tower	Rulapaugh	None	Note positioning
Ropes / pulleys to hold 3 HF antennas	Rulapaugh	Gibby also bringing ropes	We don't have end supports for the LONG HF Ant, so it may not go up until SATURDAY.
MARC Unit HF inv v ant (G5RV dipole) & feedline	Rulapaugh	None	For training, SHARES
NW Field Ubiquity - top tower NFARCPart15-KG4VWI-01	McDow	(backup unit)	point toward EOC
NW Field Ubiquity - optional backup NFARCPart15-KX4Z-02	McDow	none	point toward EOC
Two ethernet Cat5 cables to come from ubiquities down to ground	MdDow	Gibby has some shielded ethernet cable	To go to POE injectors. STRAIN RELIEVE
Dual band VHF/UHFant	Huckstep	Gibby has Diamond X-50 backup	
Coax from dual band to ground	Was scheduled to be Halbert	Gibby has 100 feet RG8X	Not clear she can be there Friday -- ??
6 meter Antenna	Bledsoe	(halo??)	
Coax from 6 meter antenna to ground	Huckstep: 100 feet thick coax	Gibby has backup	Gibby bring adapter box
Sloping vertical OCFD antenna with balun	Gibby - 65 feet		See diagram in Appendix Five
Tower trailer to support sloping vertical balun	Gibby (towed by Gallup)		Note positioning See diagram in Appendix Five



## INCIDENT BRIEFING (ICS 201)

Coax from sloping vertical antenna	David Fox	?? Gibby	Not clear he will be available -- but this can be LOWERED if supported with a rope
Grounding cable for MARC unit	Gibby to pre-installed ground rod	? Rulapaugh may have grounding	Distance scaled appears to be 50-75 feet to rod

# INCIDENT BRIEFING (ICS 201)

## APPENDIX FIVE:

### PROPOSED 2022 ORGANIZATION OF OUTDOOR STATION #2 & RELATED TEAMS TO CREATE WELCOME AREA / COMMAND POST



**1. CAUTION: POWER LINE RUNS ALONG WEST AND NORTH EDGES OF PROPERTY -- keep all antennas, rope attempts or ropes far away.**

2. Possible Layout -- subject to change!

- 2021 AARIP requests that Porta Potty be placed under more SHADE to avoid high temperatures. Consider the trees to the west edge by the tree that holds the antennas.
- PIO/Associated tents did better when shaded by the trees - but trying to have safer visitor path, and more air conditioned trailers
- RV Station #2 needs to be far enough from trees to stretch out HF horizontal antenna - 2021 positioned it closer to the South fence by the Sheriff; ground connection is available there. This RV now has an awning.
- 2021 AARIP requests a more obvious first stop for VISITORS -- Awnings of parallel trailers 20 feet from entrance (so walking / vehicles can get around)
- MARC trailer 70 feet from front of HF Stn 2, 90 feet = 90 feet from rear end = long end of OCFD.
- MARC trailer provides electricity via extension cords -- away from visitor traffic
- MARC trailer provides VHF high antenna, and 2nd HF (sloping vertical - mast trailer supports balun)
- Microwave Link has to be at Fence (or on MARC Tower??) to have clear view of EOC -- or on the MARC unit trailer
- AC power extension cord to dry-box for wifi @ fence vs located on tower
- Fuel somewhat shaded by trees (fire extinguisher)

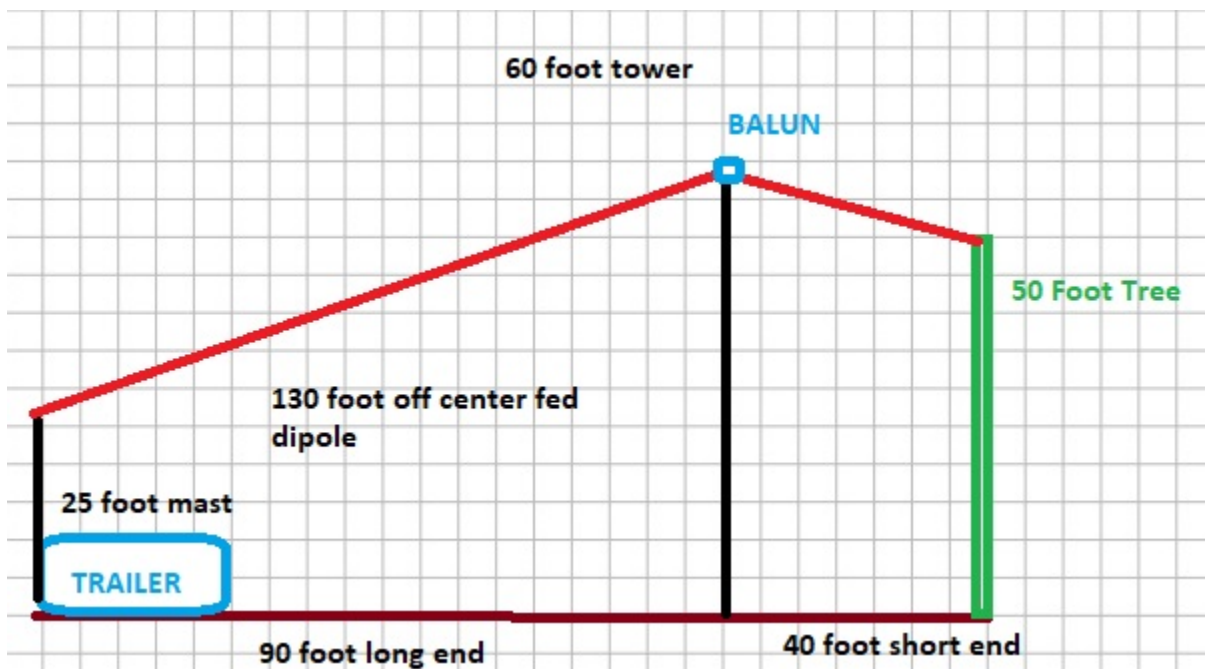
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- Satellite crew (requirements unclear?) -- position approx
- Advetize Visitor/Dignitary Parking in front of Sheriff Office -- typically empty on weekends  
CONSENSUS PLAN FOR CREATING VISITOR / DIGNITARIES WELCOME CENTER / GOTA STATIONS ETC.

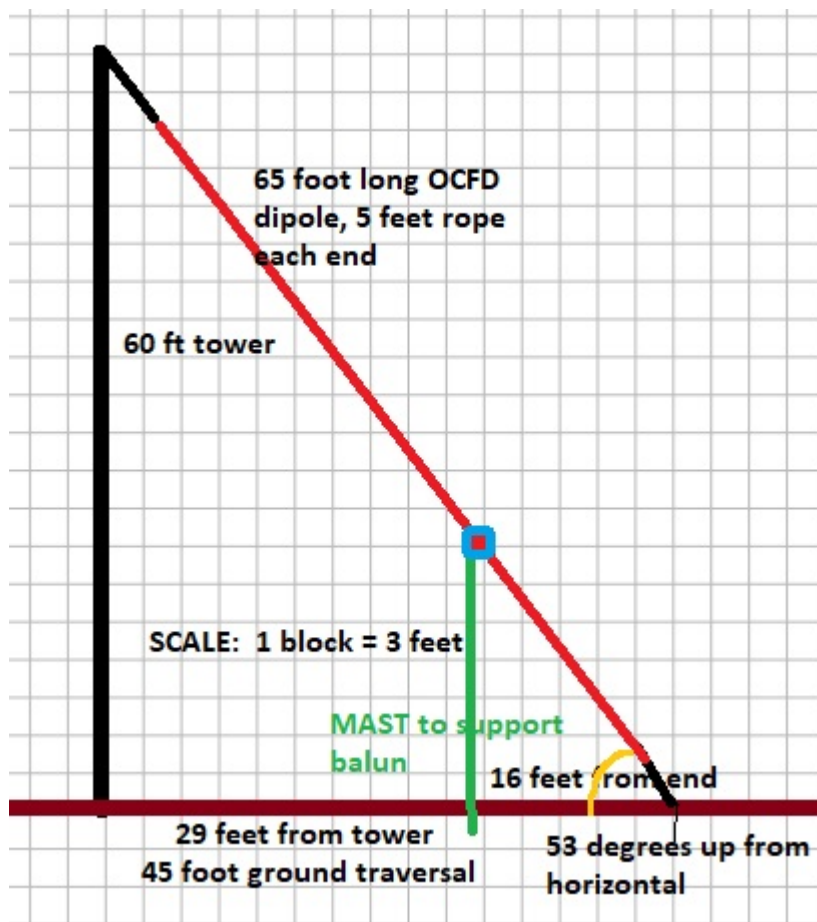
3. VHF/UHF antennas may go on the MARC Unit Tower. Plan for attachments.

4. Possible HF Antennas

- Huckstep: Buckmaster inverted vee hoisted by MARC Unit trailer, west end to west tree; and RV mast at east end.. MARC tower holds off center fed balun. (Backup: 130foot homebrew Guanella OCF)
- Gibby: Possible Vertical - Semi-Vertical Off-Center-Fed Vertical 65 foot (40/20/10 meter vertical for lower elevation angle, better for distant stations) -- from MARC Unit Tower; using "mast trailer" to hold up Balun
  - COAX RUN along ground -- lengthy run and trip hazard -- mark for trip hazard?-



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### VOLUNTEER ASSET AVAILABILITY DATA FROM GOOGLE FORMS

ITEM	Volunteer	Details	Comment
TRANSCEIVERS			
	Gordon Gibby	ICOM7300 in wood box	Plan for Stn #2?
	Amy Woods	ICOM7300 (?go boxed)	Plan for Dignitary/GOTA
	Brett Wallace	IC-705 w/100W amp &PC	Plan for using on 6M?
	David Huckstep	ICOM7300 - go boxed	Plan for EOC additional?
	Craig Fugate	ICOM7300	Backup for 6M?
	David Fox	Elecraft K3s for CW	Plan for his use Stn #2?
	Duke Bailes	Yaesu FT-2900	?
COAX		(reserve) = please bring in vehicle as spare	
	Gordon Gibby	RG8X 100 feet	---> STN #2 Coax
	Gordon Gibby	Thick: 50 feet	--> 6M station (backup)
	Gordon Gibby	RG8X Another 100 feet	(will become EOC loan)

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	Jim Bledsoe	Thick: 50 feet	---> 6M station (backup)
	David Huckstep	Thick: 100 feet	--> 6M station COAX
	Susan Halbert	Thick: 100 feet	--> GOTA 2M COAX
	Craig Fugate	Thick: 100 feet	--> 6M station BACKUP
	David Fox	RG8X 100 feet	--> <del>GOTA STN COAX</del> Change to: associated to 65foot sloping vertical used by whatever station using that.
	Earl McDow	RG8X 100 feet	--> STN #2 COAX
	Leland Gallup	RG8X 100 feet	--> East Trees Antenna for Sprinter GOTA Station
	Duke Bailes	Thick: 50 feet	(reserve)
<b>GENERATORS</b>			
	MARC UNIT	10kW Diesel	Primary Generator Gordon & Amy trailers
	Gordon Gibby	3.5kw conventional gas on tower trailer	Supply for Brett Trailer
	Leland Gallup	1-2kw inverter	Bring as backup
	Gordon Gibby	3.4 kW inverter	Bring as backup
	Duke Bailes	400Ah Batt pack/inverter	Not needed at this time
<b>SOLAR SYSTEMS</b>		Need an advance dry run here; don't completely understand systems.	
	Amy Woods	Bluetti battery system / MPPT (unclear on panels)	Primary Solar
	Brett Wallace	Massive solar system	Backup Solar
	Gordon Gibby	Available three 100-watt panels (30V each)	?? Primary panels??
	David Huckstep	two 100-wtt panels	??Primary panels??
<b>TRAILERS</b>			
	Gordon Gibby	24 foot Trailer w/coax passthru	STN #2
	Amy Woods	26 foot NEW Trailer	GOTA / DIGNITRIES

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	David Fox	Pop Up Camper	Bring for Gathering / Command Post (up front by entrance)
	Brett Wallace	Class A MotorHome	VHF STATIOIN
EXT CORDS			
	Gordon Gibby	50 or 100 feet #14	Help feed STN 2
	Jim Bledsoe	50 or 100 feet #14	Help feed STN 2
	David Huckstep	50 or 100 feet #14	Help feed Amy
	Lorilyn Roberts	50 or 100 foot #14	Help feed Amy
	Susan Halbert	50 or 100 feet #14	Help feed Brett
	Craig Fugate	50 or 100 feet #14	Help feed Brett
	David Fox	50 or 100 feet #14	Help feed POPUP (corrected from previous)
	Earl McDow	50 or 100 feet #14	Help feed POPUP
	Duke Bailes	50 or 100 feet #14	Help feed POPUP
6M ANTENNA			
	Jim Bledsoe	6 m ground plane	PRIMARY 6M Antenna
	Craig Fugate	6m loop?	BACKUP 6 M Antenna
	Leland Gallup	6 m	BACKUP 6M Antenna
	Mike Hasselbeck	6M Yagi, no transport	Hold in reserve for now?
2M/70CM			
	Gordon Gibby	Diamon X50 dual band	Backup for 2M
	David Huckstep	2m/70cm omni	Primary 2M antenna
	Duke Bailes	2M/70 cm Slim Jim	(reserve)





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## APPENDIX SEVEN: Field Day Rules 2021 (Downloaded 4/26/2021)

from: <http://www.arrl.org/files/file/Field-Day/2021/2021%20Field%20Day%20Packet.pdf> (SOME UPDATES FOR 2022 ARE MARKED)

ARRL Field Day 2021 Rules Temporary Rule Waivers for ARRL Field Day 2021:

For Field Day 2021 only, Class D stations may contact all other Field Day stations, including other Class D stations, for points. Class D and Class E stations are limited to 100 Watts PEP. (See Field Day rule 4.6)

1. Eligibility: Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit and may submit entries as check-logs.

2. Object: To work as many stations as possible on the 160, 80, 40, 20, 15 and 10 Meter HF bands, as well as all bands 50 MHz and above, and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.

3. Date and Time Period: Field Day 2021 will be held June 26-27. Field Day is ALWAYS the fourth full weekend of June, beginning at 1800 UTC Saturday and ending at 2059 UTC Sunday.

3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 27-hour Field Day period.

3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.

3.3. No class A or B station may begin its set-up earlier than 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.

4. Entry Categories: Field Day entries are classified according to the maximum number of simultaneously transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1). Twenty (20) transmitters maximum are eligible for the purpose of calculating bonus points (2,000 points maximum). However, additional transmitters which may legitimately be used simultaneously will determine your entry category classification, but will not earn additional bonus points (i.e. 22 transmitters = 22A). The use of switching systems that allow for lock-outs in order to use multiple transmitters (i.e., an “octopus”) in an attempt to enter a lower-number-of-transmitters class are prohibited (i.e. using 2 transmitters that can transmit simultaneously, with two operators, and a lock-out system and entering class 1A). The use of simulcasting devices which allow a single operator to key and transmit on more than one transmitter at a time, is prohibited. Bonus stations, such as the GOTA station and satellite station do not count towards determining the number of transmitters for the class and do not qualify for transmitter bonus points.

4.1. (Class A) Club / non-club portable: Club or a non-club group of three or more persons set up specifically for Field Day. Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day. A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). To be listed as Class A, all contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains. Entrants whom for any reason operate a transmitter or receiver from a commercial main for one or more contacts will be listed separately as Class A-Commercial.

4.1.1. Get-On-The-Air (GOTA) Station. Any Class A (or F) entry whose transmitter classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the GET-ON-THE-AIR (GOTA) station. This GOTA station may operate on any Field Day band, HF or VHF, but is limited to one GOTA station transmitted signal at any time.

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4.1.1.1. This station must use a different callsign from the primary Field Day station. The GOTA station must use the same callsign for the duration of the event regardless if operators change. The GOTA station uses the same exchange as its parent.

4.1.1.2. The GOTA station may be operated by any person licensed since the previous year's Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.

4.1.1.3. As per FCC rules, this station must have a valid control operator present at the control point if operating beyond the license privileges of the participant using the station.

4.1.1.4. The maximum transmitter output power for the GOTA station shall be 100 watts. If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 watts.

4.1.1.5. A maximum of 1000 QSOs made by this station may be claimed for credit by its primary Field Day operation. In addition, bonus points may be earned by this station under rule 7.3.13.

4.1.1.6. The GOTA station may operate on any Field Day band. Only one transmitted signal is allowed from the GOTA station at any time.

4.1.1.7. The GOTA station does not affect the additional VHF/UHF station provided for under Field Day Rule 4.1.2. for Class A stations.

4.1.1.8. Participants are reminded that non-licensed participants working under the direction of a valid control operator may only communicate with other W/VE stations or with stations in countries with which the US has entered a third-party agreement.

4.1.1.9. The GOTA station does not qualify as an additional transmitter when determining the number of transmitters eligible for the 100-point emergency power bonus under Rule 7.3.1.

4.1.2. Free VHF Station: All Class A entries may also operate one additional transmitter if it operates exclusively on any band or combination of bands above 50 MHz (VHF/UHF) without changing its basic entry classification. This station does not qualify for a 100-point bonus as an additional transmitter. This station may be operated for the clubs Field Day period and all contacts count for QSO credit. It is operated using the primary callsign and exchange of the main Field Day group and is separate and distinct from the GOTA station.

4.2. (Class A - Battery) Club / non-club portable: Club or non-club group of three or more persons set up specifically for Field Day. All contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial power mains or motor-driven generator (e.g.: batteries, solar cells, water driven generator). Other provisions are the same for regular Class A. Class AB is eligible for a GOTA station if GOTA requirements are met; however if a GOTA station is used in this class it must meet the 5-Watt or less power requirement of this category.

4.3. (Class B) One or two person portable: A Field Day station set up and operated by no more than two persons. Other provisions are the same for Class A except it is not eligible for a GOTA or free VHF station. One and two person Class B entries will be listed separately.

4.4. (Class B - Battery) One or two person portable: A Field Day station set up and operated by no more than two persons. All contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial mains or motor-driven generator. Other provisions are the same for Class A except it is not eligible for a GOTA or free VHF station. One and two person Class B - Battery entries will be

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listed separately.

4.5. (Class C) Mobile: Stations in vehicles capable of operating while in motion and normally operated in this manner. This includes maritime and aeronautical mobile. If the Class C station is being powered from a car battery or alternator, it qualifies for emergency power but does not qualify for the multiplier of 5, as the alternator/battery system constitutes a motor-driven generating system.

4.6. (Class D) Home stations: Stations operating from permanent or licensed station locations using commercial power. Class D stations may only count contacts made with Class A, B, C, E and F Field Day stations. Temporary rule waivers: For Field Day 2021 only, Class D stations may work all other Field Day stations, including other Class D stations, for points. Class D stations ordinarily may only count contacts made with Class A, B, C, E, and F Field Day stations, but the temporary rule waiver for 2021 allows Class D stations to count contacts with other Class D stations for QSO credit. Class D and E stations are limited to 100W Peak Envelope Power (PEP) transmitter output.

4.7. (Class E) Home stations - Emergency power: Same as Class D, but using emergency power for transmitters and receivers. Class E may work all Field Day stations. See 2021 power limitation above.

4.8. (Class F) Emergency Operations Centers (EOC): An amateur radio station at an established EOC activated by a club or non-club group. Class F operation must take place at an established EOC site. Stations may utilize equipment and antennas temporarily or permanently installed at the EOC for the event. Entries will be reported according to number of transmitters in simultaneous operation. Class F stations are eligible for a free VHF station. At Class 2F they are also eligible for a GOTA station.

4.8.1. For Field Day purposes, an Emergency Operations Center (EOC) is defined as a facility established by: a) a Federal, State, County, City or other Civil Government, agency or administrative entity; or, b) a Chapter of a national or international served agency (such as American Red Cross or Salvation Army) with which your local group has an established operating arrangement;

4.8.1.1. A private company EOC does not qualify for Class F status unless approved by the ARRL Field Day Manager.

4.8.2. Planning of a Class F operation must take place in conjunction and cooperation with the staff of the EOC being activated.

4.8.3. Other provisions not covered are the same as Class A.

4.8.4. A Class F station may claim the emergency power bonus if emergency power is available at the EOC site.

4.8.4.1. The emergency power source must be tested during the Field Day period but you are not required to run the Class F operation under emergency power.

5. Exchange: Stations in ARRL / RAC sections will exchange their Field Day operating Class and ARRL / RAC section. Example: a three transmitter Class A station in Connecticut which also has a GOTA station and the extra VHF station would send "3A CT" on CW or Digital, or "3 Alpha Connecticut" on Phone. DX stations send operating class and the term DX (i.e. 2A DX).

### 6. Miscellaneous Rules:

6.1. A person may not contact for QSO credit any station from which they also participate.

6.2. A transmitter/receiver/transceiver used to contact one or more Field Day stations may not subsequently be used under any other callsign to participate in Field Day. Family stations are exempt provided the subsequent callsign used is issued to and used by a different family member.

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- 6.3. Field Day contacts are allowed using Phone, CW and Digital (non-CW) modes. Stations can be worked once per band per mode under this rule.
- 6.4. All voice contacts are equivalent.
- 6.5. All non-CW digital contacts are equivalent.
- 6.6. Cross-band contacts are not permitted (Satellite QSOs cross-band contacts are exempted).
- 6.7. The use of more than one transmitter at the same time on a single band-mode is prohibited. Exception: a dedicated GOTA station may operate as prescribed in Rule 4.1.
- 6.8. No repeater contacts are allowed.
- 6.9. Batteries may be charged while in use. Except for Class D stations, the batteries must be charged from a power source other than commercial power mains. To claim the power multiplier of five, the batteries must be charged from something other than a motor driven generator or commercial mains.
- 6.10. All stations for a single entry must be operated under one callsign, except when a dedicated GOTA station is operated as provided under Field Day Rule 4.1.1. it uses a single, separate callsign.

7. Scoring: Scores are based on the total number of QSO points times the power multiplier corresponding to the highest power level under which any contact was made during the Field Day period plus the bonus points. Temporary rule waiver: For Field Day 2021, an aggregate club score will also be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions). Ordinarily, club names are only published in the results for Class A and Class F entries, but the temporary rule waiver for 2021 allows participants from any Class to optionally include a single club name with their submitted results following Field Day. For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2021 Field Day -- Hiram from his Class D home station, and Becky from her Class C mobile station -- both can include the radio club's name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club.

### 7.1. QSO Points:

- 7.1.1. Phone contacts count one point each.
- 7.1.2. CW contacts count two points each.
- 7.1.3. Digital contacts count two points each.

7.2. Power multipliers: The power multiplier that applies is determined by the highest power output of any of the transmitters used during the Field Day operation.

- 7.2.1. If all contacts are made using a power of 5 Watts or less and if a power source other than commercial mains or motor-driven generator is used (batteries, solar cells, water-driven generator), the power multiplier is 5 (five).
- 7.2.2. If all contacts are made using a power of 5 Watts or less, but the power source is from a commercial main or from a motor-driven generator, the power multiplier is 2. If batteries are charged during the Field Day period using commercial mains or a motor-driven generator the power multiplier is 2 (two).
- 7.2.3. If any or all contacts are made using an output power up to 100 Watts or less, the power multiplier is 2 (two).
- 7.2.4. ~~If any or all contacts are made using an output power greater than 150 Watts, the power multiplier is 1 (one).~~
- 7.2.5. The power multiplier for an entry is determined by the maximum output power used by any transmitter used to complete any contact during the event. (Example: a group has one QRP station running 3 Watts and a second station running 100 Watts, the power multiplier of 2 applies to all contacts made by the entire operation).

7.3. Bonus Points: All stations are eligible for certain bonus points, depending on their entry class. The following

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bonus points will be added to the score, after the multiplier is applied, to determine the final Field Day score. Bonus points will be applied only when the claim is made on the summary sheet and any proof required accompanies the entry or is received via email or normal mail delivery.

7.3.1. 100% Emergency Power: 100 points per transmitter classification if all contacts are made only using an emergency power source up to a total of 20 transmitters (maximum 2,000 points.) GOTA station and free VHF Station for Class A and F entries do not qualify for bonus point credit and should not be included in the club's transmitter total. All transmitting equipment at the site must operate from a power source completely independent of the commercial power mains to qualify. (Example: a club operating 3 transmitters plus a GOTA station and using 100% emergency power receives 300 bonus points.) Available to Classes A, B, C, E, and F.

7.3.2. Media Publicity: 100 bonus points may be earned for attempting to obtain publicity from the local media. A copy of the press release, or a copy of the actual media publicity received (newspaper article, etc.) must be submitted to claim the points. Available to all Classes.

7.3.3. Public Location: 100 bonus points for physically locating the Field Day operation in a public place (i.e. shopping center, park, school campus, etc). The intent is for amateur radio to be on display to the public. Available to Classes A, B and F.

7.3.4. Public Information Table: 100 bonus points for a Public Information Table at the Field Day site. The purpose is to make appropriate handouts and information available to the visiting public at the site. A copy of a visitor's log, copies of club handouts or photos is sufficient evidence for claiming this bonus. Available to Classes A, B and F.

7.3.5. Message Origination to Section Manager: 100 bonus points for origination of a formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station. The message must be transmitted during the Field Day period and a copy of it must be included in your submission in standard ARRL radiogram or no credit will be given. The message must leave or enter the Field Day operation via amateur radio RF. The Section Manager message is separate from the messages handled in Rule 7.3.6. and may not be claimed for bonus points under that rule. Available to all Classes.

7.3.6. Message Handling: 10 points for each formal message originated, relayed or received and delivered during the Field Day period, up to a maximum of 100 points (ten messages). Copies of each message must be included with the Field Day report. The message to the ARRL SM or SEC under Rule 7.3.5. does not count towards the total of 10 for this bonus. Available to all Classes. All messages claimed for bonus points must leave or enter the Field Day operation via amateur radio RF.

7.3.7. Satellite QSO: 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. "General Rules for All ARRL Contests" (Rule 3.7.2.), (the no-repeater QSO stipulation) is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit unless prohibited under Rule 7.3.7.1. The QSO must be between two Earth stations through a satellite. Available to Classes A, B, and F.

7.3.7.1 Stations are limited to one (1) completed QSO on any single channel FM satellite.

7.3.8. Alternate Power: 100 bonus points for Field Day groups making a minimum of five QSOs without using power from commercial mains or petroleum driven generator. This means an "alternate" energy source of power, such as solar, wind, methane or water. This includes batteries charged by natural means (not dry cells). The natural power transmitter counts as an additional transmitter. If you do not wish to increase your operating category, you should take one of your other transmitters off the air while the

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natural power transmitter is in operation. **A separate list of natural power QSOs should be submitted with your entry [emphasis added].** Available to Classes A, B, E, and F.

7.3.9. W1AW Bulletin: 100 bonus points for copying the special Field Day bulletin transmitted by W1AW (or K6KPH) during its operating schedule during the Field Day weekend (listed in this rules announcement). An accurate copy of the message is required to be included in your Field Day submission. (Note: The Field Day bulletin must be copied via amateur radio. It will not be included in Internet bulletins sent out from Headquarters and will not be posted to Internet BBS sites.) Available to all Classes.

7.3.10. Educational activity bonus: One (1) 100-point bonus may be claimed if your Field Day operation includes a specific educational-related activity. The activity can be diverse and must be related to amateur radio. It must be some type of formal activity. It can be repeated during the Field Day period but only one bonus is earned. For more information consult the FAQ in the complete Field Day packet. Available to Classes A & F entries and available clubs or groups operating from a club station in class D and E with 3 or more participants.

7.3.11. Site Visitation by an elected governmental official: One (1) 100-point bonus may be claimed if your Field Day site is visited by an elected government official as the result of an invitation issued by your group. Available to all Classes.

7.3.12. Site Visitation by a representative of an agency: One (1) 100-point bonus may be claimed if your Field Day site is visited by a representative of an agency served by ARES in your local community (American Red Cross, Salvation Army, local Emergency Management, law enforcement, etc.) as the result of an invitation issued by your group. ARRL officials (SM, SEC, DEC, EC, etc) do not qualify for this bonus. Available to all Classes.

7.3.13. GOTA Bonus. Class A and F stations operating a GOTA station may earn the following bonus points:

7.3.13.1. When a GOTA operator successfully completes 20 QSOs, they receive 20 bonus points. Upon reaching an additional 20 QSOs the same operator receives a second 20 bonus points, up to a maximum of 100 Bonus points per GOTA operator. An operator may make more than 100 QSOs but the QSOs over 100 do not qualify for an additional bonus.

7.3.13.1.1. Additional GOTA operators may earn the GOTA bonus points under this rule, up to the maximum of 500 bonus points. (Remember that there is a 1000-QSO limit for the GOTA station. But no single GOTA operator may earn more than 100 of the GOTA bonus points except as provided in 7.3.13.2.)

7.3.13.1.2. A single GOTA operator must complete all 20 QSOs required before the bonus is earned. There is no “partial credit” for making only a portion of the 20 QSOs or “pooling” QSOs between operators.

7.3.13.2. If a GOTA station is supervised full-time by a GOTA Coach, the bonus points earned for each 20 QSOs completed under Rule 7.3.13.1. will be doubled.

7.3.13.2.1. The GOTA Coach supervises the operator of the station, doing such things as answering questions and talking them through contacts, but may not make QSOs or perform logging functions.

7.3.13.2.2. To qualify for this bonus, there must be a designated GOTA Coach present and supervising the GOTA station at all times it is being operated.

7.3.14. Web submission: A 50-point bonus may be claimed by a group submitting their Field Day entry via the <https://field-day.arrl.org/fdentry.php> web app. Available to all Classes.

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## 7.3.15. Field Day Youth Participation:

7.3.15.1. A 20-point bonus (maximum of 100) may be earned by any Class A, C, D, E, or F group for each participant age 18 or younger at your Field Day operation that completes at least one QSO.

7.3.15.2. For a 1-person Class B station, a 20-point bonus is earned if the operator is age 18 or younger. For a 2-person Class B station, a 20-point bonus is earned for each operator age 18 or younger (maximum of 40 points.) Keep in mind that Class B is only a 1 or 2 person operation. This bonus does not allow the total number of participants in Class B to exceed 1 or 2.

7.3.16 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 to their operation. Individual participants do not qualify for this bonus. Club websites do not qualify for this bonus. Available to all classes.

7.3.17 Safety Officer Bonus: A 100-point bonus may be earned by having a person serving as a Safety Officer for those groups setting up Class A stations. This person must verify that all safety concerns on the Safety Check List (found in the ARRL Field Day Packet) have been adequately met. This is an active bonus – simply designating someone as Safety Officer does not automatically earn this bonus. A statement verifying the completion of the Safety Check List must be included in the supporting documentation sent to ARRL HQ in order to claim this bonus.

## 8. Reporting:

8.1. Entries may be submitted to the ARRL via:

8.1.1. Field Day Web App at <https://field-day.arrl.org/fdentry.php> or

8.1.2. USPS or other delivery service to (tracking highly recommended): Field Day Entries, 225 Main St, Newington, CT 06111.

8.2. Entries must be postmarked or submitted by ~~Tuesday July 27, 2021~~. Late entries cannot be accepted.

8.3. A complete Field Day Web Applet Submission site entry consists of:

8.3.1. An official ARRL summary sheet which is completed via web app at <https://fieldday.arrl.org/fdentry.php>;

8.3.2. Supporting information uploaded via web app. Supporting information must include:

8.3.2.1. An attached list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode – a Cabrillo log can be submitted in lieu of a Dupe Sheet/Calls list by band/mode); and

8.3.2.2. Proof of all bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.3.2.3 The web app will display a confirmation number and email a confirmation of your Field Day entry to the email address entered via the app. Please be sure to record this confirmation number and/or save the confirmation email.

8.4 While the preferred method of submitting entries is via the Web Applet, entries and/or supporting documentation may alternately be submitted via email to [fieldday@arrl.org](mailto:fieldday@arrl.org). A complete non-web-app email submission consists of:

8.4.1. An electronic copy of an ARRL summary sheet completely and accurately filled out;



## INCIDENT BRIEFING (ICS 201)

8.4.2. An attached list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and

8.4.3. Proofs of bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.5. A complete land/postal-mail or delivery non-electronic submission consists of:

8.5.1. A complete and accurate ARRL summary sheet;

8.5.2. An accompanying list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and 8.5.3. Proofs of bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.6. Complete station logs are NOT required for submission, and ARRL does not use the logs. The club should maintain log files for one year in case they are requested by ARRL HQ. However, a list of stations worked sorted by band and mode (dupe sheet) is required.

8.7. Cabrillo format log files are NOT required for Field Day entries, but they will be accepted in lieu of the dupe sheets (but do not constitute an entry unless the web app (or a corresponding summary sheet with complete mailed entry) is also submitted.

8.8. Digital images of proof of bonus points are acceptable.

8.9. Electronic submissions are considered signed when submitted.

### 9. Miscellaneous:

9.1. The schedule of bulletin times for W1AW is included in this announcement. While W1AW does not have regular bulletins on weekends, the Field Day message will be sent according to the schedule included with this announcement. The W1AW bulletins will be transmitted on the regular W1AW frequencies listed in QST. The PSK31 bulletin will be transmitted on the W1AW teleprinter frequencies. The special Field Day bulletin will be transmitted from station K6KPH on the West Coast as included in the bulletin schedule.

9.2. See "General Rules for All ARRL Contests," "General Rules for All ARRL Contests on Bands Below 30 MHz," and "General Rules for All ARRL Contests on Bands Above 50 MHz" for additional rules ([www.arrl.org/contest-rules](http://www.arrl.org/contest-rules)) that may cover situations not covered in these Field Day rules. Decisions of the ARRL Awards Committee are final in adjudicating Field Day problems.

9.3. The complete Field Day information package may be obtained by: 9.3.1. Sending a SASE with 5 units of postage to: Field Day Information Package, ARRL, 225 Main St., Newington, CT 06111; or 9.3.2. By downloading from the Field Day home page at: [www.arrl.org/field-day](http://www.arrl.org/field-day) 9.4. For more Field Day information/questions contact: [fdinfo@arrl.org](mailto:fdinfo@arrl.org) or phone (860) 594-0232

# INCIDENT BRIEFING (ICS 201)

## APPENDIX EIGHT: RADIO OPERATORS SCHEDULE

**June 15 2022 UPDATE**

### VISITOR WELCOME CENTER STAFFING

DATE / TIME	PRIMARY STAFFING	AVAILABLE ADDITIONAL TOUR GUIDES
SAT 2-4	?? David Huckstep ?? Susan Halbert ?? Wendell Wright ?? Someone else?? Operations Chief AA3YB potentially available. Liaison Reid Tillery potentially available  (PIO is operating 6M Station 2-4) (Gibby is helping out at STN#1)	
SAT 4-6	Jim Bledsoe is more available -- Amy can keep the GOTA going or switch off with Jim Gordon Gibby is available	?? other guides
SUN 10-12	Jim Bledsoe may be available Gordon Gibby definitely available ?? Others want to volunteer?	?? other guides??

### OPERATIONS / COMMAND POST STAFFING

TIME	HF STN #1 (EC)	HF STN #2 (GRASSY NW) **	VHF STN (GRASSY NW)	VISITORS / GOTA STAFFING	INCIDENT COMMANDER	OPERATIONS CHIEF
	NF4AC	NF4AC	NF4AC	NF4RC		
FRI June 24 0900	MARC Unit moves into place, center of NW Grassy Field as per above drawings, and antenna attachment and tower raising commence. Antenna preparations / possible installation in the grassy picnic east area adjacent to 27th Street. Effort expected to be completed before Noon.  Golf Cart and 5kW generator dropped off and chained to a					

## INCIDENT BRIEFING (ICS 201)

	tree.					
FRI Evening	Radio reception of the ARRL Field Day Bulletin as described above.					
<b>SAT</b> June 25 8 AM	SETUP Everyone Possible Requested To Help				Craig Fugate KK4INZ	Leland Gallup AA3YB
9AM						
10 AM					STN2 Antenna	Prime
10:30	MARC UNIT FORMAL EDUCATIONAL PROGRAM - "Show and Tell" about the purpose, usage and capabilities of the MARC Unit. District Fire Chief Rulapaugh.				Leader: Huckstep	Visitation Hours: 4-7PM
11 AM	Formal Education Program / EOC Conference Room USE OF CONFERENCE ROOM APPROVED - Dalton				Vertical Antenna Leader: Gibby	PIO: Bledsoe Liaison: Tillery E.C. Capehart
LUNCH	Sonny's Waldo Road					
1 PM	BRIEFING / Test Stations				VHF Antenna	
2 PM	K4ZSW* Asst: KX4Z*	NN4DF Asst: W4JIR	KI4KEA	GOTA IS ALWAYS CALL SIGN NF4RC  (IC/Ops)  Eric Pleace KO4ZSD	Unit Leader Fugate	
3 PM	KX4Z* Asst: K4ZSW	NN4DF Asst: KO4LBS	KI4KEA	(IC/Ops) Eric Pleace KO4ZSD		
4 PM	W4JIR*	KO4LBS Asst: NN4DF	KV4RL Dean Covey (OPS CHIEF - help get him started!)	WA4AMY KI4KEA Operator: Duke Bailes KM4EVZ		
5 PM	W4JIR*	NN4DF	KV4RL Dean Covey	WA4AMY KI4KEA Operator: Duke Bailes KM4EVZ		
6 PM	KG4VWI*	NN4DF	KO4JWC	WA4AMY KI4KEA Operator: Duke Bailes KM4EVZ		
7 PM	KG4VWI*	KO4LBS Asst: NN4DF	KO4JWC			

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				Operator: Duke Bailes KM4EVZ		
8 PM	NH2KW* Asst. KO4LBS	NN4DF Backup: KF4OJV Dan D'A.	///Radiograms priority/// WA4AMY  WB2FKO Mike Hasselbeck Assisting	(IC/Ops)	Leland Gallup AA3YB	David Huckstep W4JIR
9 PM	NH2KW* Asst. KO4LBS	KK4INZ Backup: KF4OJF Dan D'A	WB2FKO Mike Hasselbeck here or assisting KK4INZ depending on bands	N/A		
10 PM	W4JIR*	KK4INZ backup: KF4OJF Dan D'A.	Expect less VHF propagation	Expect Trailer to be down for Amy W. usage.		
11 PM	W4JIR*	NN4DF backup: KF4OJF Dan D'A.				
MIDNT	KX4Z*	NN4DF				
1 AM	KX4Z*	W4JIR				
2 AM	KX4Z*	W4JIR				
3 AM	KX4Z*	KN4TWS fill in if he wants it				
4 AM	KN4TWS fill in if he wishes	KK4MAC Joe MacK.				
5 AM	KN4TWS fill in if he wishes	KK4MAC Joe MacK				
6 AM	??	NN4DF backup: KK4MAC				
7 AM	??	NN4DF backup: KK4MAC				
8 AM	KK4INZ Asst:	NN4DF	??		BRIEFING Brett	Leland Gallup

## INCIDENT BRIEFING (ICS 201)

	AA3YB*				Wallace NH2KW	AA3YB
9 AM	KK4INZ Asst: AA3YB*	NN4DF	??			
10 AM	NH2KW* Asst: W4JIR*	KK4 INZ	KI4QBZ Asst: WA4AMY			
11 AM	NH2KW* Asst: W4JIR*	KK4 INZ	KI4QBZ Asst: WA4AMY			
LUNCH						
	HOTWASH DISCUSSION / TEARDOWN					

\* ESF#2 Badged or 24-Hr Badged Personnel

\*\* NN4DF may prefer to utilize his PopUp / Elecraft, whatever - all fine.

	7	LOCAL	146.55	HAM	146.55	N/A	146.55	N/A	A	Security, Weather Alerts, etc. Avoid unnecessary chatter.
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## INCIDENT BRIEFING (ICS 201)

### APPENDIX NINE: What is being brought, organized by person

Individual	Equipment being brought	Where equipment needs to go	Comment
Gordon Gibby			
	24 foot trailer, with mounted fire extinguisher	South part of trailer group	Mast on TAIL farthest away from trees & MARC unit to allow HF antenna required distance
	50-100 foot #14 extension	24-foot trailer	
	Tower/Mast Trailer with 3.4 kW generator and mounted fire extinguisher	North of MARC Unit to hold up balun for sloping vertical	Gordon will need help bringing this as he can only tow one item at a time.
	Icom 7300 with antenna tuner for STN#2	Inside 24-foot trailer	
	HP Elitebook for STN#2 logging & FT8software, configured and ready to go	Inside 24-foot trailer	Can move to Pop Up when that is use for STN#2
	65 foot Off Center Fed Dipole	Sloping Vertical to hang from MARC Unit	Available for STN#2 or at times, the GOTA when operating from Amy's Trailer
	Multiple BAOFENG transceivers for use as deployed by OPS CHIEF	Wherever OPS CHIEF wishes.	
	10 gallons worth of DIESEL	As directed by OPS CHIEF	Available for the MARC UNIT
	10 gallonss worth of GASOLINE	Fuel storage area underneath trees	
	Fuse distribution box to allow batteries to provide power-pole power to GOTA station go-box	To the SPRINTER GOTA Station	Allows EOC LifePO4 batteries to power the GOTA Station
	RFI-filtered 300W inverter mounted on board with power-pole connector for input power	To the SPRINTER GOTA station	Allows laptop and GOTA Ubiquity to have power.
	Two MIF-23 RFI filters	Expect to utilize to provide RFI-filtered power to 1) 24-foot trailer	

## INCIDENT BRIEFING (ICS 201)

		2) POP UP trailer	
	20+ Amp rated toroid AC line choke	Expect to utilize to provide somewhat RFI filtered power to VHF STATION in motorhome	
	Two 5-amp rated toroid AC line RFI chokes	Expect to utilize to provide additional AC line RFI prevention to STN#2 transceiver power and VHF Station transceiver	
	AC Line Uninterruptible Power Supplies		??? Need to find them...
	Two narrow fold up tables, plastic	Available for use at Visitors Station or as needed	
	Two folding or camping chairs	Available for use at Visitors Station or as needed	
	Five double female SO-239 barrel connectors	Available for any need	
	Multiple clip on ferrites	Available for any need	
	Antenna installation kit: slingshot, various long ropes	To assist with placement of any antennas	
	Folding extension ladder	Required to deal with masts on 24-foot trailer and on tower/mast trailer	
	100 feet RG8X	STN#2 Coax	
	100 feet RG8X	to EOC as backup	long term loan
	50 feet thick coax	to VHF as backup	
	HP Eliter Laptop for STN#2 (NF4AC net)	24 Foot Trailer initially, then moved as needed	
	External Computer Monitor (both HDMI and VGA inputs)	Visitors Station for external monitor	
	Suitable adapters to allow ground connections using extension cords.	24 foot trailer	
	2 HF homebrew lightning arresters	24 foot trailer	Can be moved as needed to other stations
	Personal 7300 Go Box	Plan is to test and utilize	



## INCIDENT BRIEFING (ICS 201)

David Huckstep		within STN#1 (EOC) when on duty	
	130 foot BUCKMASTER HF Antenna	Provide FRIDAY as main HF STN#2 Antenna to be pulled up on MARC tower	MARC Trailer has rope to pull up balun. We will provide rope & put line through west TREE and also paracord through 24foot trailer MAST at east end (latter onSaturday?)
	65 foot OCFD HF Antenna, with associated various lengths of rope.	Provide FRI or SAT to be deployed into trees east of parking lot for use by Sprinter GOTA Station when in use	
	Verticle, tower-mountable VHF/UHF antenna	MARC Unit Friday 0900	
	Three fire extinguishers	Distribute wherever needed	
	50-100 foot extension	Help feed 26foot AMY Trailer GOTA	
	100 feet thick coax	--> 6M STN for primary coax.	
Earl McDow			
	MIF23 AC Line Filter	??	
	Ubiquity for inside EOC	Inside EOC	
	Ubiquity for outside EOC @ tower fence, with 12-V battery supply	Outside EOC	
	Ubiquity for MARC Unit Tower, with shielded Ethernet line	MARC Unit -- 0900 FRIDAY	
	Possible backup Ubiquity for MARC unit tower,	MARC Unit -- 0900 Friday	Not sure where we get the Ethernet for this one
	Ubiquity for GOTA Sprinter station (Sat afternoon/evening)	SPRINTER	
	TENDA for EOC inside	EOC	
	TENDA for NW Grassy Field area	NW Grassy Field Area	
	Laptop for SERVER NF4AC	EOC Storage Room	Needs USB emergency boot disk

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	Define: _____		
	Laptop for GOTA Station NF4RC (different call) Lenovo 430	Amy Trailer to start, later the Sprinter	This is also the network storage for NF4RC so it can stand-alone if needed
	?? Laptop for Command NF4AC (may be provided by KK4INZ)	Command Post	Allows monitoring NF4AC
	Laptop for Command Post NF4RC net-WIN10BACKUP	Command Post	Allows monitoring NF4RC
	Laptop for visitors Station NF4AC net -- ASUS	Visitors Station	
	100 feet coax	--STN#2 additional coax	May be used by 24-foot trailer or POP UP trailer as needed
Amy Woods	26 foot RV Trailer to assist with GOTA Station	North side of Trailer -U	
	Icom 7300/GoBox (POLARITY PROTECTION???)	Provide for SPRINTER or 26-foot RV Trailer, whichever is being used for GOTA or demonstration station	
	Bluetti 2000 unit with 3 solar panels and associated cords	Bring with 26 foot RV Trailer for use to get solar power points	Position in parking lot when deployed.
Jim Bledsoe	6 meter ground plane antenna ready to mount to standoff from tower top	MARC Unit Tower, FRI 0900	MARC unit has the standoffs
	50-100 foot #14 or better	Help feed 24 foot STN#2 TRAILER	
	50 foot thick coax	VHF Stn as backup	
Leland Gallup	Gas powered Golf Cart	NW Grassy Field Area	Unclear when we can tow this there....may need to get it there Friday and lock it down.
	Backup 5kW Generator	NW Grassfy field Area	Put this on the trailer when the Golf Cart is put on a

## INCIDENT BRIEFING (ICS 201)

			trailer for transport
	100 foot coax	East Trees Antenna, for Sprinter GOTA Station	NOTE ADDITION/CHANGE
	6 meter antenna	BACKUP	
David Fox	Personal Elecraft Transceiver with WINKEYER	Pop Up Trailer	For use when STN#2
	20 foot POP UP TRAILER	West side of Trailer-U	Expects electricit from MARC Unit
	50 or 100 foot extension cord	POP UP TRAILER	(corrected from previoius)
	100 feet coax	--> 65foot sloping vertical, potentially serving STN#2 or Amy Trailer Gota	(note change, coax associated with antenna)
Lorilyn Roberts	50-100 foot #14 or better extension cord	Help feed AMY TRAILER 26 foot GOTA	
	Suitable morse code keyer as desired, with 1/4" plug	For use when operating	
Craig Fugate	10 foot canopy	Command Post	
	2 tables	Command Post	
	6 chairs	Command Post	
	VHF/UHF Go Box with Solar Panel	Command Post	
	NOAA weather alert radio	Command Post	
	First Aid/Trauma kit	Command Post	
	Office supplies	Command Post	Clip boards, pens, etc
	6 meter horizontal loop antenna with carbon fiber push up mash to support	VHF STATION	
	Coax switch to allow VHF Station to flip between antennas	VHF STATION	
	50-100 feet extension cord	Help feed BRETT Motorohome	

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	Extension cords to feed Command Post	Command Post	
	Lighting for Command Post	Command Post---	
	ICOM 7300	Backup for VHF STATION or for Command Post	
	100 feet thick coax	--> 6M VHF Station as backup	
Brett Wallace	Class A motorhome with propane generator		
	ICOM 705 with amplifier to 100 watts	VHF STATION transceiver	
	50-100 foot extension cord	to feed VHF STN	(corrected from previous)
Jeff Capehart	ARES(R) Brochures, information	Visitors Welcome Station	
	Waterproof cover for brochures, information	Visitors Welcome Station	
Susan Halbert	Extension Cord 50-100 foot #14 or better	Help feed BRETT Motorhome	
	100 feet thick coax	Amy 26 foot RV Trailer for GOTA 2-meter antenna	
Duke Bailes	50-100 Foot #14 or better extension cord	Help feed POPUP trailer	
	50 feet coax	BRING AS RESERVE	
EOC STN#1			
	Icom 7300/ antenna tuner; POLARITY	Already present	

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	PROTECTION on radio		
	HP EliteBook laptop for logging & FT8 NF4AC net; mouse already present	Already present	
	Three 23-AHr LIFEPO4 Batteries	--> Sprinter GOTA Station to provide power for station and laptop (via inverter)	
Earl Sloan	Plans to bring a FAN, UPS, and a couple of TABLES, and PiGate Demo		New information 6/23/2022

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## APPENDIX 10: N3FJP CW SETUP

Approximate Settings ( may need to be adjusted for your exact setup ) (Designed to control the PTT as quickly as possible and key without WINKEYER). IC7300 will need to use DTR for keying and RTS for PTT

CW Setup Form 1.4 (Ctrl W for this form or Ctrl > Shift W for the CW Mini form)

**Com Port:**  
COM4  
COM3

**Keying Options**  
 None  RTS  Winkeyer  DTR  N3FJPAPI

**Timing Options**  
 Sleep  Timer  Loop

**WPM**  
Faster: 18, More: 0, More: 0  
Slower: 18, Less: 0, Less: 0

**Word Character**  
Send F9 Characters:

**Description:**  
To use computer generated CW, first, you will have to build or purchase an interface to connect from your computer's serial port to your transmitter. Schematics and purchase options are available on my website (www.n3fjp.com).  
Most folks only have USB ports now, but in most cases a USB to serial adapter will work fine. You'll find them on line or at your local Best Buy.  
Alternatively, you can select the Winkeyer device, which will key your rig independently from your PC's processor, which is a great solution if your processor's code is erratic. There is also a Winkeyer

CW PTT for Amps  
Lead (ms): 10, Tail (ms): 5

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
CQ FD DE NF4A	\$ 2F NFL BK	R TU NF4AC FD K	\$ ?	NFL NFL	2 F 2 F	AGN	NF4AC	R 2F NFL		DUPE	Keyboard

**Multi Radio Configuration: (Main Form Ctrl + X)**  
Rig 1:    
Rig 2:    
Rig 3:    
   
Rig interface must be enabled to swap CW settings.

Faster Escape Check  
 Show Mini on Startup  
[Click for more info on rig to PC CW interfaces.](#)

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### APPENDIX 11: INTERFERENCE MITIGATION STRATEGIES AVAILABLE AT 2022 NF4AC FIELD DAY

Reference Information: <https://www.onallbands.com/simple-filters-from-transmission-line-stubs/>

Youtube Video: <https://www.youtube.com/watch?v=mjfdTJIY6To&t=23s>



Two 20-meter 1/4 wave stubs. Each is approx 15 feet long. One is simply OPEN at the end and thus kills 20m energy, passes 40/15/10 meter signals. The other has a 2-position switch; when OPEN it works like the previous description. When CLOSED it is a shorted 1/4wave 20 meter stub and passes 20meters but kills (notches) 10 meter energy. Stubs were tuned with a spectrum analyzer, but one can do much the same with a simple antenna analyzer.

No.	Interference Situation	Possible Solutions	Rated Power Level of solution hardware
1	10 meter receiver impacted by 20 meter transmitter (two possible causes: 2nd harmonic versus fundamental overload)	a) 20meter open 1/4 wave stub on 10 meter receiver 50 ohm line will notch (kill) 20 meter energy, no impact on 10 meter signals b) 20 meter shorted 1/4 wave stub on 20 meter transmmitter will notch 10 meter 2nd harmonic from 20 meter transmitter c) 20 meter bandpass filter on 20 meter station will also eliminate 2nd harmonic d) Use IP+ setting on 7300	a) $\geq 100$ watts  b) $\geq 100$ watts  c) 100 W SSB 50 W CW/Dig
2	20 meter receiver impacted by 40, 10 or 15 meter transmitter (overload)	a) 20 meter shorted 1/4 wave stub on 20 meter station 50-ohm line, will notch 10 meter incoming overload energy; it doesn't do much against the other bands.	a) $\geq 100$ watts

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		<p>b) 20 meter bandpass filter on 20 meter station will eliminate incoming 10m or 15m or 40 meter energy</p> <p>c) Use IP+ setting on 7300</p>	<p>b) 100 W SSB 50W CW/Dig</p>
3	<p>15 meter receiver is impacted by 20 meter or 10 meter transmitter (overload)</p>	<p>To notch (kill) the 20meter energy, put an open-ended 20meter 1/4 wave stub in the line.</p> <p>To notch (kill) the 10 meter energy, would need to put an open-ended 10m 1/4 wave stub in the line (not yet constructed).</p> <p>Use IP+ setting on 7300</p>	<p>&gt;= 100 watts</p>
4	<p>40 meter receiver impacted by 80, 20, 15, or 10 meter transmitter (overload)</p>	<p>40 meter bandpass filter on 40 meter station will eliminate incoming energy from most other bands</p> <p>Use IP+ setting on 7300</p>	<p>40 meter station: 100W SSB 50 W CW/Dig</p>
5	<p>40 meter receiver impacted by 2nd harmonic of 80 or 75 meter transmitter.</p>	<p>Use appropriate 80m or 75m bandpass filter on Transmitter to reduce their 2nd harmonic dramatically</p> <p>Use IP+ setting on 7300</p>	<p>80m or 75 m transmitter limited to 100W SSB or 50w CW/Dig</p>
6	<p>75 meter phone station impacted by 80meter or 40 meter or 20 meter transmitter</p>	<p>Use 75 meter bandpass filter on 75 meter station.</p> <p>Use IP+ setting on 7300</p>	<p>Limit 75 meter station to 100W SSB.</p>
7	<p>80 meter CW or Digital station impacted by 80 meter phone, 40m or 20m transmitter</p>	<p>Use 80 meter bandpass filter on 80 meter transceiver</p> <p>Use IP+ setting on 7300</p>	<p>Limit 80 meter CW or digital transmitter to 50W</p>
8	<p>160 meter operation impacted by nearby commercial broadcast.</p>	<p>Use IP+ setting on 7300</p>	



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## APPENDIX TWELVE: ELECTROMAGNETIC EXPOSURE CALCULATIONS

Online ARRL Exposure Calculator: <http://arrl.org/rf-exposure-calculator>

BAND	POWER (watts)	SIGNAL (DIGITAL is the worst case)	DUTY CYCLE (Contest operation)	Antenna GAIN	Ground Reflection Included	Minimum Distance Separation (Uncontrolled Environment) <sup>1</sup>	Verdict on our proposed antennas <sup>2</sup>
2M	50	FM	33%	6 dBi	YES	8.6 feet	Antenna will be 50 feet above us so exposure is VERY MINIMAL
6M	100	Dig	50%	2.2dBi	YES	9.5 feet	Antenna will be 50 feet above us so exposure is VERY MINIMAL
10M	100	Dig	50%	2.2 dBi	YES	8.9 feet	OCFD will be 20-50 feet above ground hence meets this requirement even if operator is standing continuously.
15M	100	Dig	50%	2.2 dBi	YES	6.7 feet	Minimal exposure
20M	100	Dig	50%	2.2 dBi	YES	4.5 feet	Minimal exposure
40M	100	Dig	50%	2.2 dBi	YES	2.2 feet	Minimal exposure
80M	100	Dig	50%	2.2 dBi	YES	1.1 feet	Minimal exposure

Date: 6/18/2022 G. Gibby

- 1 Uncontrolled Environment is the most demanding and most conservative environment to protect unsuspecting individuals.
- 2 Conclusions are based on the NW Grassy Field (STN#2 and VHF STATION) and GOTA Station because the EOC STN #1 is >50 yards from its transmitting antenna and surrounded by reinforced concrete.

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## APPENDIX 13: SUGGESED INCIDENT COMMAND POST ACTIVITIES

No.	Area	Activity	Comment												
1	Responsiveness	Maintain a continuous watch over the VHF local coordinaation frequency given in the ICS-205.  Maintain situational awareness of conditions and personnel on the campus	For safety, assistance, etc.												
2	Weather	Maintain awareness of pending dangerous weather via radar map observation, NOAA weather alarms, lightning watch (e.g. <a href="https://www.lightningmaps.org/#m=oss;t=3;s=0;o=0;b=;ts=0;y=24.7069;x=-80.5188;z=6;d=2;dl=2;dc=0;">https://www.lightningmaps.org/#m=oss;t=3;s=0;o=0;b=;ts=0;y=24.7069;x=-80.5188;z=6;d=2;dl=2;dc=0;</a> , etc.													
3	Illegal concurrent band/mode operations / interference	REINFORCE that no station should change BAND or MODE without getting approval from OPERATIONS/INCIDENT COMMANDER, whoever is monitoring at that time.													
4	Operator sign in	Monitor for names of operators, to detect when new operator forgot to sign in	Visible on the main screen "recent contacts" list.												
5	Networked display of logging / monitoring computers	Keep monitoring ccomputers and station logs entering on their PROPER BAND  Suggested monitoring computers (to avoid interfering with operating stations) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Incident Commander</td> <td>3CM PHONE</td> </tr> <tr> <td>Operations</td> <td>3CM CW</td> </tr> <tr> <td>Welcome Center</td> <td>3CM DIGITAL</td> </tr> <tr> <td>SERVER COMPUTER</td> <td>6 CM DIGITAL</td> </tr> <tr> <td>Additional1</td> <td>6 CM PHONE</td> </tr> <tr> <td>Additional2</td> <td>6 CM CW</td> </tr> </table>	Incident Commander	3CM PHONE	Operations	3CM CW	Welcome Center	3CM DIGITAL	SERVER COMPUTER	6 CM DIGITAL	Additional1	6 CM PHONE	Additional2	6 CM CW	
Incident Commander	3CM PHONE														
Operations	3CM CW														
Welcome Center	3CM DIGITAL														
SERVER COMPUTER	6 CM DIGITAL														
Additional1	6 CM PHONE														
Additional2	6 CM CW														
6	Productivity	Monitor how quickly stations are making contacts; provide advice or suggestions or fix problems if operators are having problems.  Suggest alternate bands etc if propagation changes or a station begins to run out of potential contacts.													
7	Interference	Provide bandpass filter or stub solutions if there													

## INCIDENT BRIEFING (ICS 201)

		are interference difficulties between stations	
8	Personnel Monitoring	Keep watch over which personnel are on site and their locations; know who is taking a nap and where.	
9	Visitor friendliness	Make certain the Visitor Welcome Center is staffed at all times with knowledgeable persons and able to provide guided tours	
10	Bonus Point Documentation	Keep track of expected acquisition of bonus point documentation in the IAP and encourage Officers to make timely submissions to the Documentation Email of files (in PDF format preferred, all put together nicely for each bonus point area)	
11	Electrical Power	Maintain awareness of generator fueling status and reserve fuel availability Initiate actions to provide additional fuel or replacement generation capacity as needed.	
12	Security	Make overall judgements of access (gate) conditions, vehicle placement etc for security.	
13			
14			