

# Bedford County Amateur Radio Society

Bedford County, PA



## BCARS Emergency Radio Services ARES – RACES – Aux Comms Svc (ACS)

## ARES WPA SET (ICS) Training No.2

4 March 2021 (v3)



BCARS. 2021 All Rights Reserved

# Federal, PA State & County Emergency Services

- **National Incident Management System (NIMS)** guides all levels of government, nongovernmental organizations and the private sector to work together to prevent, protect against, mitigate, respond to and recover from incidents.

**NIMS** provides stakeholders across the whole community with the shared vocabulary, systems and processes to successfully deliver capabilities (and) defines (and) guide(s) how personnel work together during ***INCIDENTS***.

**Bedford County EMA** (Dept of Emergency Services (DES)) is our local provider and manages the Bedford/Fulton 911 Center (collocated with EOC).

The **Incident Command System (ICS)** is a standardized approach to the command, control, and coordination of emergency response providing a common hierarchy..... **ICS** was initially developed to address problems of inter-agency responses to wildfires in California and Arizona but is now a component of the NIMS in the US, where it has evolved into use in All-Hazards situations, for Emergency ***INCIDENTS*** ranging from active shootings to HazMat scenes.

# NIMS ICS – Communications Forms

## (FEMA) ICS forms

- ICS 201 – Incident Briefing
- ICS 202 – Incident Objectives
- ICS 203 – Organization Assignment List
- ICS 204 – Work Assignment List (ARC)
- ICS 205 – Incident Radio Communications Plan
- ICS 205A – Communications List
- ICS 206 – Medical Plan
- ICS 207 – Incident Organization Chart
- ICS 208 – Safety Message/Plan
- ICS 209 – Incident Summary
- ICS 210 – Resource Status Change
- ICS 211 – Incident Check-In List
- ICS 213 – General Message
- ICS 214 – Activity Log
- ICS 215 – Operational Planning Worksheet
- ICS 215A – Incident Action Plan Safety Analysis
- ICS 217A – Comms Resource Availability
- ICS 218 – Support Vehicle/Equipment Inventory
- ICS 219 – Resource Status Cards (T-Cards)
- ICS 220 – Air Operations Summary Worksheet
- ICS 221 – Demobilization Check-Out
- ICS 225 – Incident Personnel Performance Rating

# ICS – 204 Work Assignment (ARC uses)

WPA ARRL SET/SAR 30 OCT 20 (ICS 204) BLAIR → BEDFORD

Incident Name: [DR common name]	DR Number XXX-XX	Operational Period 18:00 dd/mm/yyyy to 17:59 dd/mm/yyyy
------------------------------------	---------------------	--

**Work Assignment (ARC ICS 204)**

District/County Bedford

Operations Leadership:  
AD Operations – Tom Leitz \*\*\*EXERCISE \*\*\*EXERCISE \*\*\*EXERCISE\*\*\*

Resources Assigned		Total # of persons	Reporting Location	Reporting Time
Resource Identifier	Leader Name & Contact Information			
Incident Command Post	Lynn A. [REDACTED]	MC/FF – 2 SHVSV – 1	Shawnee State Park Pavilion #9	11:30 am
	<b>Work Assignment</b> Provide canteen services to x first responders at command post. Red Cross teams are en route and should arrive at command post at 1130 hrs on Oct 3, 2020. (Simulated) ***EXERCISE ***EXERCISE ***EXERCISE***			
	<b>Work Assignment</b>			
	<b>Work Assignment</b>			
	<b>Work Assignment</b>			
	<b>Work Assignment</b>			

Prepared By:	[name] AD Planning	
--------------	-----------------------	--

OPS Incident Action Plan V.3.0 2019.09.27  
Owner: Disaster Cycle Services  
Author: Disaster Operations

Page 1 of 1

# ICS-205 INCIDENT COMMS PLAN Form

*DRAFT 205 FALL SET 2020*

## INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205)

<b>1. Incident Name:</b> 2020 SAR "SET" EXERCISE ARES-RACES			<b>2. Date/Time Prepared:</b> Date: 3 OCT 2020 Time: 0800 HRS			<b>3. Operational Period:</b> Date From: 3 OCT      Date To: 3 OCT Time From: 0800R      Time To: 1400R				
<b>4. Basic Radio Channel Use:</b> <i>WHICH FUNCTIONS, USE WHICH FREQS</i>										
Zone Grp.	Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	TX Tone/NAC	Mode (A, D, or M)	Remarks
	1	EOC NCS	BCARS TWO METER REPEATER	RES NET	145.490	N/A	144.890	123.0 hz	A	Net Check in and Comms to EOC & Station 37.
	2	SAR PRIMARY	TAC SIMPLEX	PRIMARY TAC	146.580	N/A	146.580	N/A	A	PRIMARY TAC CHANNEL FOR SAR
	3	WPA HF NET	75 METER SSB	AUX HF	3983 KHz	N/A	3983 KHz	N/A	LSB	Primary HF Circuit to WPA OPS
	4	BACK UP RES NET REPEATER	BLUE KNOB REPEATER	EMER RES NET	147.150	N/A	147.750 0	167.9 hz	a	Back RES Net Repeater
	5				3					
	6			T			1			
	7	NBEMS CIRCUIT	75 METER FLDIGI	DIGITAL TRAFFIC	3585.5 KHz	N/A	3585.5 KHz	N/A	USB	Digital Message Handling
	8	SECONDARY COMMAND	BCARS 220 REPEATER	COMM-2	224.480	N/A	222.880	123.0	A	SEC COMMAND
<b>5. Special Instructions:</b> 1. SET Drill begins at 0800. Please be set up for radio checks at that time. 2. For Technical Assistance, KB3DFZ may be reached on the BCARS Two Meter Repeater. 3. ARES NET CONTROL ON PRIMARY TAC IS KA3UDR 4. ARES NET CONTROL ON RES NET IS KC3NAF 5. "RES-NET" = Resource Net <i>↔ NCS</i> * All Nets are Directed Nets										
<b>6. Prepared by</b> (Communications Unit Leader): Name: _____ Signature: _____										
ICS 205		IAP Page _____		Date/Time: 5 Oct 2019						

# ICS-205A COMMUNICATIONS LIST Form

*205A LTR 2020*

**COMMUNICATIONS LIST (ICS 205A)**

<b>1. Incident Name:</b> <i>Lost Turkey Trail Races - 2nd DRAFT</i>		<b>2. Operational Period:</b>		Date From: <i>11/08/2020</i>	Date To: <i>11/08/2020</i>
				Time From: <i>0400 Local</i>	Time To: <i>2000 Local</i>
<b>3. Basic Local Communications Info:</b>					
Incident	Assigned Position	Call Sign - Name	Shift	Site Latitude & Longitude	
<i>Pri NCS</i>		N3EYF-Bin	0400-1800	39°55' 1.0000" N 78°17'43.0000"	
<i>Alt NCS</i>		N3JZH-Barb	0400-1800		
<i>Chappell's Field</i>		KK3F-Pat	0400-1800	39°38'44.4500" N 78°57'33.5500"	
		WB3JEK-Kenny	0400-1200	40°17'20.7540" N 78°35'20.5920"	
		KB3DFZ-John	0400-1000		
		KA3UDR-Steve	0800-1600		
		KC3OMD-Brad	0800-1600		
<i>Buffalo Rd Observation</i>		W3DRW-Bernie	0500-1000	40°12'12.4200" N 78°40'51.1560"	
<i>Buffalo Rd/Skyline Dr</i>		Unassigned	####-####	40°14' 0.8700" N 78°40' 0.2900"	
<i>Burnt House</i>		KC3NAF-Ed	0400-1200	40°16' 0.6600" N 78°37' 0.9960"	
<i>Campground</i>		KC3FOZ-Mike	0830-1530	40°17'28.0680" N 78°35'39.7860"	
		KC3FPA-Jim	1300-1800		
<i>Hairpin</i>		KC3NFD-Dale	0700-1400	40°17'13.8660" N 78°33'56.8860"	
<i>Hollow Road</i>		Unassigned	####-####	40°14' 1.7820" N 78°41'34.3560"	
<i>King's Field</i>		KC3QBZ-Frank	0500-1000	40°17'54.2160" N 78°38'31.9440"	
<i>Lost Children</i>		KC3KHK-Zack	0730-1600	40°17'38.0160" N 78°36'12.0540"	
		W4NMP-Dick	1200-1800		
<i>Lost Turkey Trailhead</i>		K3QNT-Lloyd	0345-0730	40°13' 1.6980" N 78°45'38.9340"	
<i>Mowery Picnic Area</i>		KC3DNA-Patti	0900-1800	40°16'27.5100" N 78°35' 9.8220"	
<b>4. Prepared by: Name:</b> Steve Wurn KE3ZT		<b>Position/Title:</b> BCARS Activity Manager		<b>Signature:</b>	
ICS-205A KE3ZT		IAP Page		Date time: 10/25/2020 0859 Local	

*WHICH FUNCTIONS ARE WHERE*

*WHO*

*WHEN & WHERE*

# NIMS ICS-213

## General Message Form

213

**GENERAL MESSAGE (ICS 213)**

1. Incident Name (Optional): <u>NOT APPLICABLE ON ARRL RADIOGRAM</u>						
2. To (Name and Position): <u>SAME AS RADIOGRAM (ADDRESSEE)</u>						
3. From (Name and Position): <u>SAME AS RADIOGRAM (FROM)</u>						
4. Subject: <u>SAME AS RADIOGRAM (ADDRESSEE) "OF NOTE"</u>	5. Date: <u>SAME</u>	6. Time: <u>SAME</u>				
7. Message: <u>[ORIGIN] (TIME FILED)</u>  <u>SAME AS RADIOGRAM (TEXT) SECTION</u>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">From (Name and Position):</td> <td style="width: 50%; text-align: center;">To (Name and Position):</td> </tr> <tr> <td style="width: 50%; text-align: center;">From (Name and Position):</td> <td style="width: 50%; text-align: center;">To (Name and Position):</td> </tr> </table>			From (Name and Position):	To (Name and Position):	From (Name and Position):	To (Name and Position):
From (Name and Position):	To (Name and Position):					
From (Name and Position):	To (Name and Position):					
8. Approved by: Name: <u>SAME AS (FROM/REC'D)</u> Signature: _____ Position/Title: _____						
9. Reply:						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Reply</td> <td style="width: 50%; text-align: center;">Approved by</td> </tr> <tr> <td style="width: 50%; text-align: center;">Reply</td> <td style="width: 50%; text-align: center;">Approved by</td> </tr> </table>			Reply	Approved by	Reply	Approved by
Reply	Approved by					
Reply	Approved by					
10. Replied by: Name: <u>SAME AS (TO/SENT)</u> Position/Title: _____ Signature: _____						
ICS 213						

# ICS-214 Activity Log

[illegible]

# ICS-217A COMMS RESOURCE AVAILABILITY Form

217A FALL SET 2020

COMMUNICATIONS RESOURCE AVAILABILITY WORKSHEET						Frequency Band ALL FREQUENCIES	Description SET (SAR) EXERCISE RADIO OPS		
Pg No	Channel Configuration	Channel Name/Trunked Radio System Talkgroup	Eligible Users	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks
	NAME	CALL SIGN	ASSIGNMENT	FREQ	MODE	AVAILABILITY			
	<b>WHICH VOLUNTEERS - WHICH FUNCTIONS - WHICH USE FREQS/MODES AVAILABLE</b>								
	BERNIE	W3DRW	ROAD MOBILE	147.5700	SIMPLEX	YES			
	DICK	W4NMP	ROAD MOBILE	147.5700	SIMPLEX	YES			
	TIM	KC3LHY	ROAD MOBILE	147.5700	SIMPLEX	YES			
	JAY	K3SCM	ROAD MOBILE	147.5700	SIMPLEX	YES			
	JIM	KC3FPA	ROAD MOBILE	147.5700	SIMPLEX	YES			
	STEVE	KC3DNB	ROAD MOBILE	147.5700	SIMPLEX	YES			
	MORGAN	W3MAB	ROAD MOBILE	147.5700	SIMPLEX	UNKN			
	GARY	KC3HKZ	ROAD MOBILE	147.5700	SIMPLEX	YES			
	JAY	WA3UXP	ROAD MOBILE	147.5700	SIMPLEX	UNKN			
	BILL	N3EYF	NCS	145.4900	REPEAT	YES			
	BRAD	KC3OMD	DRONE OPE	147.5700	SIMPLEX	YES			
	ZACH	KC3KHK	DOG TEAM #1	147.5700	SIMPLEX	YES			
	DALE	KC3NFD	DOG TEAM #2	147.5700	SIMPLEX	YES			
	JUNIOR	KB3TKC	LOST GUY	147.5700	SIMPLEX	YES			
	RANDY	KC3MMX	ROAD MOBILE	147.5700	SIMPLEX	UNKN			
	BARB	N3JZH	ALT NCS	145.4900	REPEAT	YES			
	CARL	KC3KFW	NCS	3983 KHZ	HF	UNKN			
	GUNNY	KE3ZT	NBEMS	3585.5 KHZ	DIG-HF	UNKN			

The convention calls for frequency lists to show four digits after the decimal place, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.



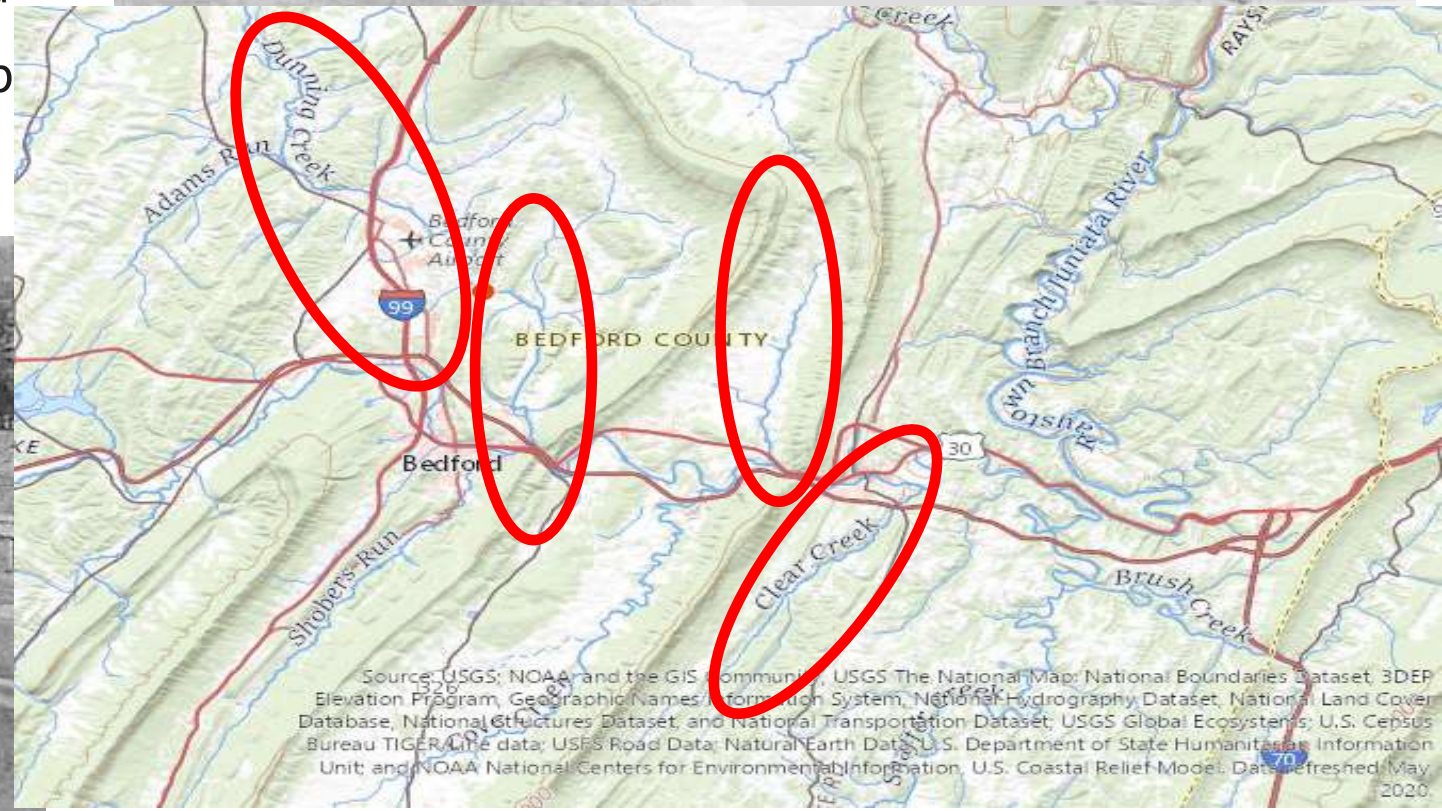
# WPA ARES S.E.T. 3 April 2021, 0930-1230L



- **WHAT**: WPA (Section/Districts **ONLY**, **Not ARRL wide**)(Steve F, DSM/K3FAZ, 2/20)
- **Exercise** **GREY RINO** “ Simulated Emergency Test/Training (SET)
  - “High Probability, High Impact environment situation...should not be ignored...”
- **Scenario**: Major WPA River Ice Flows, blocks/Flooding (described in ICS-201/209)
- **How**: WPA ARES will Deploy ARES volunteers to observe rivers’ flood zones/gates/ice
  - Primary Ohio, Allegheny and Youghiogheny Rivers and tributaries areas
- **Objectives of Exercise/Training** – TBD as of 20 Feb (Per ICS-202...)
- **Comms Reporting**
  - **Required Reports – TBD as of 20 Feb**
  - VHF/UHF nets and HF/Digital (FLDigi?) Nets – WPA Specifics TBD as of 20 Feb (Per ICS-205/205A...)
  - **ALSO...5.3xxx Mhz USB 60m “test net”** also (...NOT 6m/50Mhz) – WPA Details TBD
- **BCARS Role/Responsibilities**: TBD as of 20 Feb (Per WPA, or, PEMA, or EMA or IC/EC)
  - Anticipate deployed BCARS Volunteer Road Mobile observers w/VHF net reports, NCSs, HF/Dig nets

# Real World Bedford County Relevance ?

- **Historical Flooding in Bedford County:**
- Flooding **19-21 January 1996** resulted in damages to roads/homes in Bedford County, PA, when **heavy rains** 18 Jan followed melt from **3 ft snow**
- Flooding along the Raytown Branch of the Juniata River, Shoup's Run and the Great Trough Creek stream flowing to Raystown Lake (Bedford Gazette).
- Areas along the Rt- 913 ...along Shoup's Run from Broad Top City to Saxton were affected by flood waters. Places like Dudley, Coalmont, Carbon Township and Puttstown in Hopewell Township experienced flood damage. (Bedford Gazette).



# BCARS Participation in 3 April WPA SET ?



## ☐ **DOES BCARS WANT TO DO THIS ARRL WPA SET Observer deployment?**

✓ YES - If YES, Does BCARS want to practice full ALERTing, CALL UP, Activation/Deploy?

☐ Yes/No?

- **EXERCISE ONLY - Safety First!!! (Volunteers assume responsibility for own safety, Own Vehicle operations)**

- **How will BCARS Volunteers for ARES be Activated? (CODE-1, 2, 3 or 4 Notifications)**

ALERTed – By Phone, Email, and/or 2m Voice Net

Activated - Called Up - Phone Call/Emailed – Individuals Willing and Able?; Nets activated/NCSs assigned?

Mobilized/Deployed- IC or EC assigned positions, observations and Voice Reports required

- **Observe Raystown Branch Juniata River (Simulated) Ice Flows/Flood points (Per Final ICS-202 Exercise Sc**

- **Activated Net(s) (TBD) on VHF Net(s), HF/Digital (Fldigi) Nets**

Remote NCS/BCARS Van or mobile Repeater(s) - TBD

**VHF Nets** – Primary, Alternate/Secondary, Simplex

**HF Nets** – Primary, Alternate/Secondary

**Digital (FLDigi) Nets** (as/if required/Directed)

**ICS Forms** as/if Required (E.g., ICS-213 General Report; (maybe) ICS-214 for RED CROSS Activation/deployment)

- **Make Required Reports VHF and HF Nets: Reports TBD (as of 20 Feb, 4 March)**

Designated VHF, HF, Digital Nets,

NCSs assigned for local VHF Net(s) – BCARS 2m Repeater 145.490Mhz

**Directed Net** Control (Check-in, Comment, Relay, etc.).





# BCARS Member ARES Volunteers Activation



**“Code-1” ARES Volunteers ALERT notification** – ARES Volunteers Prepare individually to support a local, INCIDENT

- **How: phone recall Tree** - (See Jan 2021 BCARS Roster Phone numbers and email addresses):
  - (BCARS EC) will make initial 5 Calls - First Five (5) call Second Five (5), call Third Five(5), Call 4<sup>th</sup> Five (5), etc.
- **How: By email** - concurrent with “phone tree” notification, (BCARS EC) will send a group email to all about the situation
- **How: 2m net(s)** - (IF) local circumstances preclude phone call/email Alert/notification (EC) May also notification by 2m repeater
  - Kinton Knob/145.490 Mhz, and Martin Hill/146.790 Mhz.

2. **“Code-2” ARES volunteers CALL UP**: ARES volunteers are activated for potential support, **but** specific comms support pending.

- **HOW:** When/if a **“CODE-2 Call Up”**, **Volunteers should respond with their individual Willingness & Readiness**.

3. **“CODE-3” ARES volunteers VHF/UHF/HF net(s) activation**: BCARS ARES Volunteers Comms Nets are activated

- **How:** For a **“Code-3 Net Activation”** – Volunteers (may be) assigned by (EC) (in shifts) as Observers/Reporters or NCSs
- For 2m Repeater nets on either (Primary) 145.490 Kinton Knob repeater or (Secondary) 146.790 Martin Hill repeater; 220/440 Mhz Backups.
- NCS/Station(s) on air (at QTHs), or, at Bedford Courthouse EOC as/if required.
- Regional/Section/District VHF/UHF/HF/Digital nets as/if required/directed.

4. **(CODE-4) ARES volunteers mobilized/deployment**: BCARS member ARES Volunteers are being deployed

- **How:** For a **“Code-4 Deployment mobilization,”** Willing/Ready volunteers may Rendezvous or deploy to emergency locations.
- (EC) May Assign volunteers to various Bedford County local locations in support of Bedford EMA 911 Center, or, PA PEMA, or WPA as directed.



# BCARS members ARES Volunteers Call Up Replies



During a (“Code-2”) *ARES volunteers Call up*: (ARES volunteer activation, but comms support actions pending).

When Called/Emailed in a “**CODE-2 Call Up**”,  
**Volunteers should respond with their individual Willingness and Readiness.**

**How: Willingness** – *Individuals say IF they are Willing to participate in support activities, or not.*

**GREEN** = **Willing** to participate in exercise/real emergency INCIDENT support

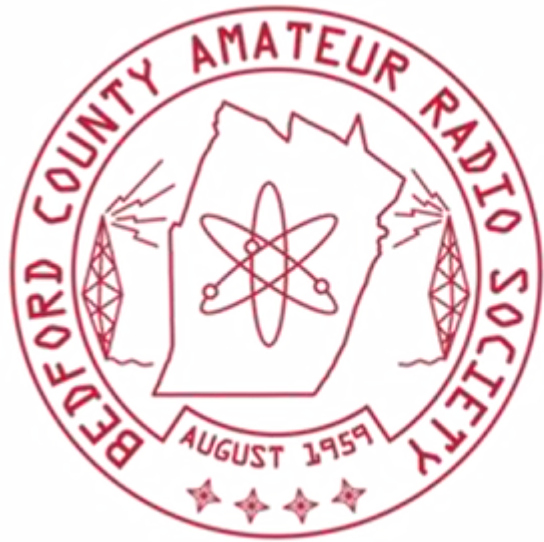
**ORANGE** = **UNwilling/UNable** to participate (...Not judged, no excuse required/desired)

**How: Readiness.** *Volunteers reply with their own material/equipment READINESS*

**RED** - **Not Ready** ( ....lacking essential radio/mobility (car) equip/material), but Willing

**WHITE** - **Partly Ready** (missing some radio equipment/Material), but Willing

**BLUE** - **Fully Ready** (equipment/Material), and, Willing



**Bedford County Amateur Radio Society**  
Bedford County, PA

# Backups


# References



USRACES.ORG

PEMAAUXCOM.ORG

Auxiliary  
Communications  
Field Operations Guide  
(AUXFOG)  
US Department of Homeland  
Security  
Office of Emergency  
Communications  
Version 1.1



Homeland  
Security

ARRL.ORG/ARES

ARES® TRAINING LEVEL			
Level 1			
This is the primary level for those who choose a non-leadership role as well as those new to Amateur Radio or emergency communications. This introductory training is conducted by the local ARES group to meet its needs and those of its served agency or partners. This training could be formal or informal and would introduce the ARES participant to the fundamentals of emergency communications and provide instructions on how participants are to conduct themselves while serving in the field or otherwise activated. Participants are encouraged to complete Level 1 and advance to level 2 as soon as practical. R = Required, O = Optional, E = Encouraged			
TASK	R-O-E	COMPLETION DATE	EC Sign Off
Education			
ICS-100.c- Intro to Incident Command System*	O		
ICS-700.b Introduction to National Incident Mgt. System*	O		
SKYWARN - Spotter Basic Training (Biennially)	O		
ARRL EC-001 Introduction to Emergency Communications	O		
Comment: *Sets initial baseline requirements. Will likely be insufficient for deployment at an incident.			
Participation			
Obtain Task Book	R		
Join an ARES® group	R		
Comment:			
Proficiency/Skill			
Obtain Technician class or higher Amateur Radio License	R		
Comment:			



# ARES is.....Amateur Radio Emergency Service

- The **Amateur Radio Emergency Service®** (ARES) consists of licensed amateurs who have **voluntarily** registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. (ARRL)  
**ARRL** also says:
  - Every licensed amateur, regardless of membership in ARRL **or any other local or national organization (E.g., Clubs)** is eligible ...for ARES membership.
    - **(So...ARES Membership is not automatic with BCARS club membership.)**
  - Training may be required or desired to participate fully in ARES.
  - The possession of emergency-powered equipment is desirable but is not a requirement for ARES membership.
  - To Join ARES, **Register online** in ARES Connect! <https://arrrl.volunteerhub.com>

# ARRL Amateur Radio Emergency Services (ARES)

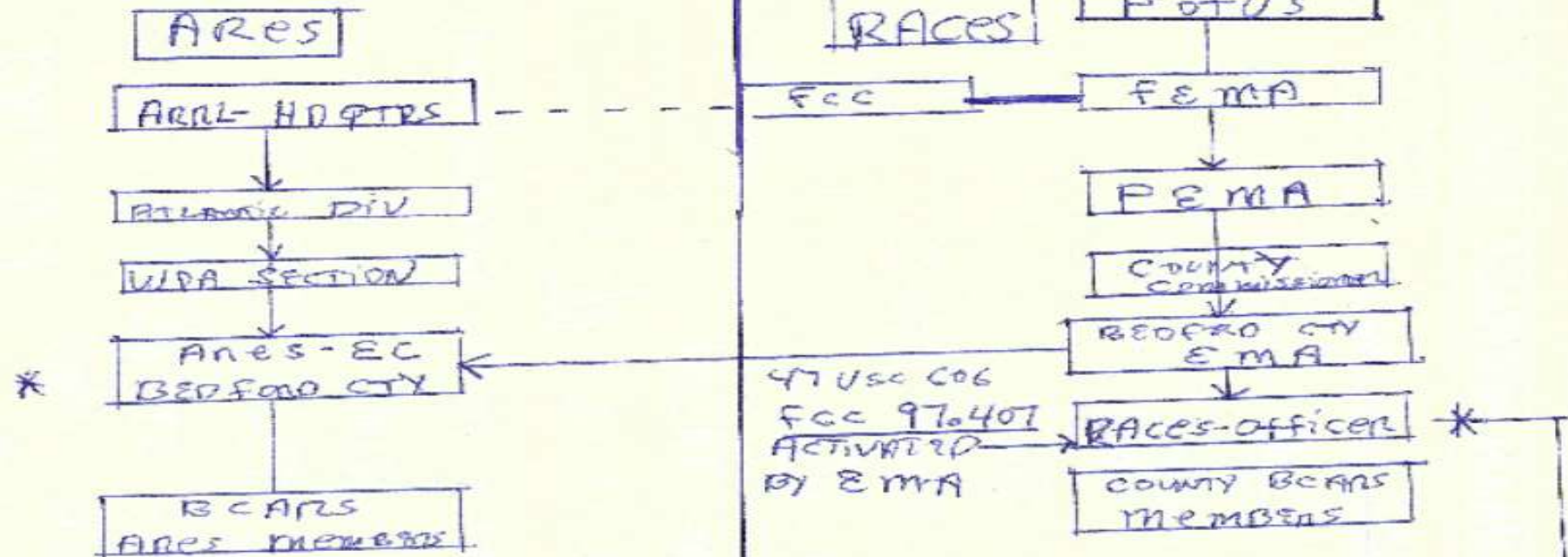
## Skill Levels

- Level 1** - Entry level into ARES®, includes skills learned when obtaining an Amateur Radio license
- Level 2** - Set of skills desired by ARES® obtained through coursework and training
- Level 3** - Increased skill set that initiates a pathway to leadership positions and assignments

ARESâ TRAINING LEVEL			
Level 1			
This is the primary level for those who choose a non-leadership role as well as those new to Amateur Radio or emergency communications. This introductory training is conducted by the local ARES group to meet its needs and those of its served agency or partners. This training could be formal or informal and would introduce the ARES participant to the fundamentals of emergency communications and provide instructions on how participants are to conduct themselves while serving in the field or otherwise activated. Participants are encouraged to complete Level 1 and advance to level 2 as soon as practical. R = Required, O = Optional, E = Encouraged			
TASK	R-O-E	COMPLETION DATE	EC Sign Off
Education			
ICS-100.c- Intro to Incident Command System*	O		
ICS-700.b Introduction to National Incident Mgt. System*	O		
SKYWARN - Spotter Basic Training (Biennially)	O		
ARRL EC-001 Introduction to Emergency Communications	O		
Comment: *Sets initial baseline requirements. Will likely be insufficient for deployment at an incident.			
Participation			
Obtain Task Book	R		
Join an ARESâ group	R		
Comment:			
Proficiency/Skill			
Obtain Technician class or higher Amateur Radio License	R		
Comment:			

# Reminder:....Bedford County ARES and RACES

## EM COMM ORG-CHART



ARRL  
\* AMATEUR RADIO  
EMERGENCY SERVICE

6 NOV 2020 - K39WT

ACTIVATED ONLY  
AFTER EMERGENCY DECLARATION  
UNDER WAR POWERS ACT



# ARES in BCARS.....Past and Present

- ARES Volunteer BCARS members legacy of contributions:
  - Twice year (2x) (**SET) Simulated Emergency Training** Comms exercises
  - First-ever October 2020 combined SET and **County-wide SAR Exercise**
  - April 2020 SET exercise **NTS message traffic handling**
  - Historic Exercise **Deployments** (2019 and earlier for 10+ years):
    - Backup 911 at Bedford County **Fire Halls** (Fair Weather, **w/2m Repeaters**)
    - Raystown Branch Juniata River **Flood zones reports** (Fair Wx, **w/2m Repeaters**)
    - Bedford County Airport, Hospital, Schools/shelters relocation centers
    - Other government/non-government support (Red Cross; Blair County, etc)
    - **Bedford County EMA Support** - EOC at Bedford Courthouse, 911-net B/U
    - **Public Service** Activities (Election Support, **NWS SkyWarn Spotter** Nets/reports)

# ARES in 2021 and Beyond....



## • Readiness

- Weekly BCARS **Tuesday night 8pm ARES-RACES 2m Net(s) : 145.490 +.....**
- Occasional SIMPLEX (**w/o Repeater**) or Repeater/Duplex Net (2m, 220, 440 repeaters....6m?)
  - **SIGN-UP** on **ARES Connect** each Week! ( <https://arrl.volunteerhub.com> )
- Daily **WPA PTN 1630L (1800EST) HF Nets (3, 983Mhz)**, and Sat/Sun 0900L **ARES ACS** Nets

## • Training

- **Individual/Self-Train** ARES members – NIMS (FEMA) ICS-100/200/700/800 online classes
- **Group Training**: BCARS Monthly Meetings – ARES Quarterly General training, **deployments**
- **ARRL Exercises**: Annual (Twice year) April/October SET and SET/SAR Communications Exercises
- Annual (1x year) **Combined SET/SAR** County-wide multi-organization mutual support exercise

## • Coordination

- Within BCARS, w/Repeater Team, ARES Badges, administration/ARES Connect, WPA/3<sup>rd</sup> Region
- One of 4 WPA Districts = South East (SE) District - BCARS ARES EC reporting to SEC/DECs
  - **Reports**: Monthlies/Annual, SET/SAR After Action AARs, Public Service Activity (PSARs), Ops/Financials
- With **Bedford County - EMA**, 911-Center/EOC, Volunteer Fire/EMS, Government/Non-Gov<sup>21</sup> orgs.

# ARES in 2021 and Beyond (Continued)....



- **Next:**

- **3 April ARES Spring SET Comms w/SAR** Exercise for BCARS ARES Volunteers
  - **Lost Small Private Plane SAR** in Blue Knob State Park Foothills Communications Exercise
  - **Supporters:** BC **EMA**/911 Ctr, Bedford Cty **Airport** (Dun Aviation), **DCNR**, and **ANG** (so far...)
  - Other **Invitees:** Red Cross, CAP squadron(s) (Johnstown, State College, Bedford); PSP, Bedford County Fire/EMS, Salvation Army, BCWST Dog Teams, Heaven Scent/Lost Hounds Dog Teams
- October 2021 SET (TBD)
- Other ARES Group Communications Training (E.g., Non-Repeater Comms)

- **BCARS Member Questions? Feedback?**

- **Who:**

- **ARES EC** for Bedford Cty (ARRL appointment (not elected)): **Ed/KC3NAF (Acting only)**
  - WPA – Section Mgr: Joe S/W3BC, Section EC: Bud P/N3TIR; District EC: Kevin L/W3XOX
  - BCARS ARES EC Administration: **Steve/KE3ZT**
  - BCARS ARES EC (Emeritus): Steve/KA3UDR
- **RACES:** **Lloyd/K3QNT**
- **PEMA ACS Lead:** **TBD**

# PA State Emergency Management Agency (PEMA) Auxiliary Communications Service (ACS)

- K3QNT Lloyd's Presentation.....
- **PEMA ACS Mission Statement:** The mission of the PEMA ACS is to be a redundant communications resource, ready to enhance or assume emergency communications duties for governmental agencies (county, regional, state and federal) during times of actual or potential disaster, or when normal communications are either unavailable or are unable



# NIMS ICS-202 INCIDENT OBJECTIVES Form

INCIDENT OBJECTIVES (ICS 202)													
1. Incident Name: FALL SET 2020	2. Operational Period: Date From: 3 OCT 20 Date To: 0600 Time From: 3 OCT 20 Time To: 1400												
3. Objective(s): <b>WHO DIRECTS....</b> Under the auspices of the County Department of Emergency Services, Bedford County Amateur Radio Society (BCARS) provides the local ARES-RACES Organization for Bedford County PA. <b>WHAT...</b> Twice Annually, the ARRL Amateur Radio Emergency Service (ARES) conducts a "LIVE" exercise. In WPA the exercise is supervised by the Section Emergency Coordinator. (SEC) <b>WHO LEADS INCIDENT....</b> This year Bedford ARES-RACES will provide communications for a simulated Search and Rescue (SAR) conducted by Station 37/38 Fire and Rescue in Manns Choice, PA. Other participants include PSP Bedford and the State Parks (DER) The drill will simulate two lost hikers in and near Shawnee State Park. Volunteer elements of ARES RACES provide tactical communications for the SAR Team, the County EOC and two canine search parties. <b>I.C. is.....</b> Overall Incident Command is Station 37/38. EC Steve Elliott KA3UDR will command the ARES Communications operations. Ed Majewski KC3 NAF will act as liaison to the fire companies and coordinate logistics Lloyd Roach, K3QNT assists the EC and act as PIO for the Public Information component <b>SUPPORTED BY....</b> The primary objective for ARES RACES is to provide responders and the Bedford County EOC with reliable communications throughout the exercise. <b>GOAL IS....</b>													
4. Operational Period Command Emphasis: Overall Command will be the Incident Commander on the scene. ARES-RACES will be in a support role under the Operations Branch. General Situational Awareness The Command Post will be set up in an outdoor covered space in Shawnee State Park. Main operations will take place in the forest and mountain roads in and around the park. The terrain is mountainous and covered with heavy foliage. Exercise will be conducted rain or shine. Safety Officers will be assigned by Station 37/38.													
5. Site Safety Plan Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located at: <b>(SAFETY PLAN (ICS-208))</b>													
6. Incident Action Plan (the items checked below are included in this Incident Action Plan): <table border="0"><tr><td><input type="checkbox"/> ICS 203</td><td><input checked="" type="checkbox"/> ICS 207</td><td rowspan="5">Other Attachments: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> ICS 204</td><td><input checked="" type="checkbox"/> ICS 208</td></tr><tr><td><input checked="" type="checkbox"/> ICS 205</td><td><input checked="" type="checkbox"/> Map/Chart</td></tr><tr><td><input checked="" type="checkbox"/> ICS 205A</td><td><input checked="" type="checkbox"/> Weather Forecast/Tides/Currents</td></tr><tr><td><input type="checkbox"/> ICS 206</td><td></td></tr></table> <b>ICS REQ'D</b>			<input type="checkbox"/> ICS 203	<input checked="" type="checkbox"/> ICS 207	Other Attachments: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart	<input checked="" type="checkbox"/> ICS 205A	<input checked="" type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/> ICS 206	
<input type="checkbox"/> ICS 203	<input checked="" type="checkbox"/> ICS 207	Other Attachments: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>											
<input type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 208												
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Map/Chart												
<input checked="" type="checkbox"/> ICS 205A	<input checked="" type="checkbox"/> Weather Forecast/Tides/Currents												
<input type="checkbox"/> ICS 206													
7. Prepared by: Name: Lloyd B. Roach- Position/Title: RACES Officer Signature: _____													
8. Approved by Incident Commander: Name: Steve Elliott Signature: _____													
ICS 202	IAP Page _____	Date/Time: 20 August 2020											

# NIMS ICS-207 INCIDENT ORG CHART Form

**DRAFT**      **207 FALL SET 2020**      **8/19/20**

## INCIDENT ORGANIZATION CHART (ICS 207)

<b>1. Incident Name:</b> ARES/RACES FALL SET EXERCISE		<b>2. Operational Period:</b> Date From: 3 OCT 20      Date To: 0800 Time From: 3 OCT 20      Time To: 1400	
--	--	--	--

**3. Organization Chart**

**Incident Commander(s)**  
 ✓ STEVE K3NAF - ARES  
 ✓ LLOYD K3QNT - RACES

**Operations Section Chief**  
 ✓ [REDACTED]

**Staging Area Manager**  
 ED K3NAF

**Planning Section Chief**  
 ✓ STEVE K3ZT

**Logistics Section Chief**  
 ✓ ED K3NAF

**Finance/Admin Section Chief**  
 STEVE K3DNB

**Liaison Officer**  
 ED K3NAF

**Safety Officer**  
 BERNIE W3DRW

**Public Information Officer**  
 LLOYD K3QNT

**Support Branch Dir.?**  
 BOB/K3IFL

**Service Branch Dir.?**  
 BOB/K3IFL

**TAC 1:** GARY K3HK MOBILE

**TAC 2:** [REDACTED] MOBILE

**TAC 3:** [REDACTED] MOBILE

**TAC 4:** JAY K3SCM MOBILE ✓

**TAC 5:** [REDACTED] K3PYT

**TAC 6:** STEVE S. K3DNB ✓

**TAC 7:** BERNIE W3DRW ✓

**TAC 8:** [REDACTED] K3DNA

**TAC 9:** TIM B/K3LHY ?

**TAC 10:** RANDY/K3MAX C ?

**EXER VICTIM:** JUNIOR/MANADA/K3STKE ✓

**DOG TEAM SAR COINLS:**

1: [REDACTED] ✓

2: DALE/K3NFD ✓

3: [REDACTED]

ICS 207

IAP Page \_\_\_\_

4. Prepared by: Name: K3QNT      Position/Title: RACES      Signature: \_\_\_\_\_      Date/Time: 22 AUG

# NIMS ICS-208 SAFETY PLAN Form

*208*

**SAFETY MESSAGE/PLAN (ICS 208)** 1/2

<b>1. Incident Name:</b> FALL SET EXERCISE 2020	<b>2. Operational Period:</b> Date From: 3 OCT 20 Date To: 0800 Time From: 3 OCT 20 Time To: 1400
--	--

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

Search teams should begin any activity with assigned leads doing a few minutes of risk evaluation/preparation.

4. What medications might each member be in need of and is it immediately available? Is each member "feeling well enough/up to the task" this morning.

5. Each member is provided with drinking water. (minimum of one bottle per person walking)

6. Can each team be provided with a hand-held VHF, Cell w/ Map-GPS or GPS?

7. Regularly scheduled radio call in (VHF each 15 min) to establish location/team members condition.

8. Is each search member appropriately dressed for the conditions/weather? Bug-Spray, SunTan Lotion?

9. Is there a person who would be available to replace ANY team members who may not be either available or able to carry out his duties that morning in an assigned exercise ground search Team or duty?

**NOTES:**

10. GENERAL EXERCISE RULE: Safety is paramount! *If you see something amiss, say something!*

11. Bedford EMA has approved Exercise Plan; Bedford 911 Center simulating Exercise SAR kickoff Fire/EMS callout of Co.37 et al. *Simulated Exercise conduct/play will begin approx 0800L with 911 Ctr callout Co.37/EMS17.*

12. Shawnee State Park/DCNR Rangers have (written) authorized BCARS/Co.37 use of Park grounds/airspace for Exercise including Drone Air Ops.

13. Exercise simulated Command Post authorized by DCNR/Rangers at Pavilion #9 on 3 Oct approx 0800-1500L.

14. Exercise simulated ground search areas along Park Forbes Trail, and vicinity campsite Site-A authorized.

15. Drone air low altitude SAR operations in exercise support authorized by DCNR/Rangers operated by Brad Oaks/KC3OMD)

16. Local Civil Air Patrol CAP volunteers (all ages) expected in-person, for ground (not airborne) search support.

17. DepChief Co.37 Tom Wertz will be acting SAR Exercise lead, with additional Fire/EMS volunteers from Co.37 and 38/55/EMS 11/17. BCARS EC Steve Elliott/KA3UDR will be SET Comms Exercise Lead.

18. Bedford County in-person EMS 11 and EMS 17 Participating with (2) ambulances present on scene Shawnee Park Pavilion #9, at ready. *Public may observe Exercise activity at a safe distance from Pavilion #9.*

19. A dog scent search team will be participating in support of D/Ch Co.37 Lead, including BCWST.

20. BCARS providing Simulated PRESS LIAISON (PIO = Lloyd Roach/K3QNT) at Command Post (CP) for Press Liaison/simulated support SAR reporting and BCARS Comms coordination.

21. BCARS providing multiple licensed radio operators (~20) for SAR/SET support including several ground-mobile-road search teams (to be assigned by D/Ch Co.37 in exercise play) using POVs.

22. Virtual support/presence commitments from Red Cross, Salvation Army (Mutual aid/canteen truck, etc) and USAF ANG Recruiters on 3 Oct. BCARS Members will be assigned as Lead Shadows, Crowd Control (IF Req;d)

23. Tactical Comms on VHF Simplex and BCARS Dulpex repeaters for BCARS assigned Road-Mobile units & BCARS Comms Van at CP, Shadows to Organization Leads.

24. Mutual Support physical in-person exercise participants all individual volunteers for liability purposes.

25. All physical in-person exercise volunteers CONTACT LIST to be provided to Exercise Leads including names, Cell Ph #s for emergency contact. *ALL Participants MUST Sign-in at Exercise Start/arrival and finish/departure!*

26. Volunteer Missing Persons for SAR (Amanda/Junior Shade) licensed BCARS with Cell Phones, Reflective Vests, HTs, tracking along Forbes Trail route.

27. Exercise Finish Point (FINEX) for Volunteer Missing Persons (2) with designated BCARS Road-Mobile Operator (Bernie/W3DRW) pickup ~1400L.

28. Two (2) Exercise ground SAFETY OFFICERS are assigned to oversee/monitor ALL Exercise conduct.

**29. Site Safety Plan Required?** Yes ☐ No ☐  
**Approved Site Safety Plan(s) Located At:**

<b>5. Prepared by: Name:</b> _____	<b>Position/Title:</b> _____	<b>Signature:</b> _____
ICS 208	IAP Page _____	Date/Time: _____

# NIMS ICS-211 PERSONNEL SIGN IN Form

211 FALL SET 2020

1. Incident Name <b>BCARS SET/SAR</b>		2. Operational Period (Date / Time) From: <b>0630 30CT</b> To: <b>1526 30CT 2020</b>		3. Check-in Location <input checked="" type="checkbox"/> Command Post <input type="checkbox"/> Other <input checked="" type="checkbox"/> Staging Area		CHECK-IN LIST (Personnel) <b>14</b> ICS 211p-OS	
Personnel Check-in Information				8. Initial Incident Check-in?		9. Time	
4. Name	5. Company / Agency	6. ICS Section / Assignment / Quals.	7. Contact Information	(X)	In	Out	
<b>GARY METIVIER</b>	<b>BCARS</b>	<b>BCARS K03HKZ</b>		<input type="checkbox"/>	<b>0730</b>	<b>1303</b>	
<b>JOHN ROACH</b>	<b>BCARS</b>	<b>SET K3 QNTT</b>		<input type="checkbox"/>	<b>0730</b>	<b>1305</b>	
<b>Trister Shade</b>	<b>BCARS</b>	<b>K03TKC</b>		<input type="checkbox"/>	<b>7:19</b>	<b>13:52</b>	
<b>Amanda Shade</b>	<b>BCARS</b>			<input type="checkbox"/>	<b>7:19</b>	<b>13:52</b>	
<b>BERNIE FRANK</b>	<b>BCARS</b>	<b>SET W3DRW</b>		<input type="checkbox"/>	<b>0735</b>	<b>1340</b>	
<b>Wade Schuster</b>	<b>BCARS</b>	<b>SET W4NMP</b>		<input type="checkbox"/>	<b>0735</b>	<b>1345</b>	
<b>Jack Shp</b>	<b>BCARS</b>	<b>K03QBZ</b>	<b>Jack Shp</b>	<input type="checkbox"/>	<b>740</b>	<b>1345</b>	
<b>Tony Smith</b>	<b>BCARS</b>			<input type="checkbox"/>	<b>740</b>	<b>1320</b>	
<b>David E. Durbican</b>	<b>BCARS</b>			<input type="checkbox"/>	<b>6740</b>	<b>1345</b>	
<b>Dominic Condegarie</b>	<b>BCARS</b>	<b>Set exercise</b>		<input type="checkbox"/>	<b>0751</b>	<b>15:50</b>	
<b>Maria Felix</b>	<b>BCARS</b>	<b>Set exercise</b>		<input type="checkbox"/>	<b>7:51</b>	<b>1326</b>	
<b>Grabe Frans</b>	<b>BCARS</b>	<b>Set exercise</b>		<input type="checkbox"/>	<b>0751</b>	<b>1330</b>	
<b>Alex Evans</b>	<b>BCARS</b>	<b>Set exercise</b>		<input type="checkbox"/>	<b>0751</b>	<b>1330</b>	
<b>Garrett Baker</b>	<b>BCARS</b>	<b>Set exercise</b>		<input type="checkbox"/>	<b>740</b>	<b>1340</b>	
<b>ED MAJEWSKI</b>	<b>BCARS</b>	<b>SET/SAR</b>		<input type="checkbox"/>	<b>0630</b>	<b>1630</b>	
<b>Carol Thompson</b>	<b>BCARS</b>	<b>Set</b>		<input type="checkbox"/>	<b>0800</b>	<b>1315</b>	
<b>JAMES HAHN</b>	<b>BCARS</b>	<b>Set</b>		<input type="checkbox"/>	<b>0810</b>	<b>0130</b>	
<b>ALLISON MICHAN</b>	<b>BCARS</b>			<input type="checkbox"/>	<b>8:15</b>	<b>1335</b>	
<b>Steve Elliott</b>	<b>BCARS</b>	<b>K1934DM</b>		<input type="checkbox"/>	<b>0700</b>	<b>1345</b>	
<b>BOYD MILB</b>	<b>K03IRP</b>	<b>K03IRP</b>		<input type="checkbox"/>	<b>1345</b>	<b>OUT</b>	
<b>ROBERT REDMAN</b>	<b>K03IFL</b>	<b>K03IFL</b>		<input type="checkbox"/>	<b>0700</b>	<b>1330</b>	
10. Prepared by: <b>ED MAJEWSKI, BCARS</b>		Date / Time <b>0630 30CT 2020</b>		11. Date / Time Sent to Resources Unit <b>1526 30CT 2020</b>			
CHECK-IN LIST (Personnel)				June 2000		ICS 211p-OS	
<b>B BCARS</b>		<b>5 CAP</b>		<b>2 BCWS</b>		<b>1 B/C</b>	

Electronic version: NOAA 1.0 June 1, 2000

# ARRL NTS Message Traffic System

- Organized network of amateur radio operators who move traffic (messages)
- Started in 1915 as the formal ARRL system to relay messages across the country
- Goal: Relay the message so that it arrives as it started
  - “Word for word, letter for letter”
- WPA Phone Traffic Net (Daily) 3,98300Mhz



# ICS-213 Message (versus ARRL Radio Gram NTS Form)

## ICS Form 213 – NIMS Message Format

<p> <input type="checkbox"/> <b>Administrative Information</b>  <input type="checkbox"/> <b>Background and History</b>  <input type="checkbox"/> <b>Current Status and Outlook</b> </p>			
<p><b>Background:</b></p>		<p><b>Current Status:</b></p>	<p><b>Outlook:</b></p>
<p><b>Background:</b></p>			
<p><b>Current Status:</b></p>			
<p><b>Outlook:</b></p>			

ARRL — The National Association for Amateur Radio

# RADIOGRAM

TO	FROM	CLASS OF SERVICE	TIME	DATE	FREQ.
----	------	------------------	------	------	-------

NAME OF STATION: \_\_\_\_\_

CALL SIGN: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_

ZIP: \_\_\_\_\_


<p><b>SPECIAL INSTRUCTIONS</b></p> <p> </p> <p> </p> <p> </p>	<p><b>REMARKS</b></p> <p> </p> <p> </p> <p> </p>
---	--

# ARRL NTS Radio Gram ARES Form

*RADIOGRAM*

*SERIAL #*      *PRIORITY ROUTINE ETC*      *SPECIAL HANDLING CODE*

**ARRL** — the national association for Amateur Radio™  
**RADIOGRAM**

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
TO				THIS RADIO MESSAGE WAS RECEIVED AT			
				AMATEUR STATION _____ PHONE _____			
				NAME _____ E-MAIL _____			
				STREET _____			
				CITY, STATE, ZIP _____			

PHONE NUMBER \_\_\_\_\_  
E-MAIL \_\_\_\_\_

*TEXT OF MESSAGE by WORD*

<i>WORD</i>	<i>WORD</i>	<i>WORD</i>	<i>NUM</i>	<i>etc</i>	<i>WORD</i>
<i>NUM</i>	<i>WORD</i>	<i>NUM</i>			

FROM	DATE	TIME	TO	DATE	TIME
<b>REC'D</b>			<b>SENT</b>		

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or [www.arrl.org](http://www.arrl.org).

The ARRL is the national association for Amateur Radio and the publisher of QST magazine. One of its functions is promotion of public service communication among Amateur Radio operators. To that end, the ARRL has organized the National Traffic System for daily nationwide message handling.

1320 2/11

# NIMS: ICS-213 and ARRL Radio Gram NTS Forms Differences

- The ARRL NTS traffic system does not use the ICS 213 form
- Per ARRL, ICS-213 does not contain critical components needed to ensure efficient, accurate **message relaying (NTS Nets using Morse or Voice to relay traffic)**
- Any ICS-213 traffic brought to a (NTS) traffic net must be converted to ARRL Radiogram beforehand
- Stations bringing ICS 213 forms to relay will not be able to list or relay their traffic Unless the (E.g., MARS, Other Sub-net) liaison has done the needed Radiogram conversion