

Young telegrapher David Sarnoff

Contact Us:

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Other Area Amateur Radio Clubs:

Burlington County Radio Club k2td-bcrc.org Delaware Valley Radio Association w2zq.com Raritan Valley Radio Club w2qw.org South Jersey Radio Association sjra.org

Reference Websites:

ARRL US Amateur Radio Band Plan Charts: http://www.arrl.org/graphical-frequency-allocations

Making Your First Contact: http://www.arrl.org/making-your-first-contact

ARRL "Considerate Operator's Frequency Guide": http://arrl.org/considerate-operator

FCC License/Call Sign Search Page: http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp

FCC Title 47 CFR Part 97 – Amateur Radio Service Rules and Regulations:

https://www.govinfo.gov/content/pkg/CFR-2009-title47-vol5/pdf/CFR-2009-title47-vol5-part97.pdf

	Lo.	cal 2 mete	Local 2 meter and 70 cm Frequencies	Frequencies
Frequency	Offset	Ы	Callsign	Comments
144.200	simplex			National calling frequency
146.460	1.0	131.8	N2RE	DSRC; Lawrenceville, NJ
146.520	simplex			National simplex frequency
146.625	9.0-	103.5	W2QW	RVRC; Green Brook, NJ
146.670	9.0-	131.8	W2ZQ	DVRA; West Trenton, NJ
147.300	0.6	131.8	W3BXW	Fairless Hills, PA
147 345	06	1273	WA3RXW	SNJARS; Waterford Works, NJ
432.100	simplex			National calling frequency
442.650	5.0	131.8	W2ZQ	DVRA; West Trenton, NJ
446.000	simplex			National simplex frequency
449.325	-5.0	107.2	N2BEI	BEARS-DARI; Hillsborough, NJ

David Sarnoff Radio Club

Established March 6, 1975 an ARRL affiliated club

http://n2re.org

The David Sarnoff Radio Club is a general-interest amateur radio club serving the greater Princeton, NJ area. Membership is open to anyone with an interest in amateur radio. There are no dues. To become a member, simply attend a club meeting and fill-out a membership application.

Meeting: Third Tuesday of the month 7:30 PM

Location: American Red Cross 707 Alexander Rd, Suite 101 Princeton, NJ 08540

Q: What is Amateur Radio?

- A: Amateur Radio (Ham Radio) is a popular hobby and a service in which licensed participants operate communications equipment. Although hams get involved for many reasons, they all have in common a basic knowledge of radio technology and operating principles, and pass an examination for the FCC license to operate on radio frequencies known as the "Amateur Bands." These bands are radio frequencies reserved by the Federal Communications Commission (FCC) for use by hams at intervals from just above the AM broadcast band all the way up into extremely high microwave frequencies.
- Q: Do I have to learn Morse Code?
- A: While many hams like to use Morse Code, it is not required.
- Q: How do I get started?
- A: The Technician Class is the first level license grant; several self-study guides are available and classes are typically offered throughout the year by local clubs.

Signal Report (RST)

"Full Quieting" is the term used for a clear voice transmission on a repeater.

An example RST report for a voice transmission is "59", usually pronounced "five nine" or "five by nine", and indicates a perfectly readable and very strong signal.

The **R** stands for "Readability". Readability is a qualitative assessment of how easy or difficult it is to correctly copy the information being sent during the transmission. In a voice transmission, readability refers to how easy or difficult it is for each spoken word to be understood correctly. Readability is measured on a scale of 1 to 5.

- 1. Unreadable
- 2. Barely readable, occasional words distinguishable
- 3. Readable with considerable difficulty
- 4. Readable with practically no difficulty
- 5. Perfectly readable

The **S** stands for "Strength". Strength is an assessment of how powerful the received signal is at the receiving location. Although an accurate signal strength meter can determine a quantitative value for signal strength, in practice this portion of the RST code is a qualitative assessment, often made based on the S meter of the radio receiver at the location of signal reception. "Strength" is measured on a scale of 1 to 9.

- 1. Faint signal, barely perceptible
- 2. Very weak
- 3. Weak
- 4. Fair
- 5. Fairly good
- 6. Good
- 7. Moderately strong
- 8. Strong
- 9. Very strong signals

The **T** stands for "Tone". Tone is only used in Morse code and digital transmissions and is therefore omitted during voice operations.

NATO Phonetic Alphabet

A Alfa	N November
B Bravo	O Oscar
C Charlie	P Papa
D Delta	Q Quebec
E Echo	R Romeo
F Foxtrot	S Sierra
G Golf	T Tango
H Hotel	U Uniform
I India	V Victor
J Juliet	W Whiskey
K Kilo	X X-ray
L Lima	Y Yankee
M Mike	Z Zulu

An example of a phonetic pronunciation for the David Sarnoff Radio Club call sign N2RE is:

NOVEMBER TWO ROMEO ECHO

Coordinated Universal Time

Coordinated Universal Time (UTC) is the time at the zero or reference meridian.

Note: Subtract one hour from EDT for EST

UTC	EDT	UTC	EDT	UDT	EDT
0000*	2000	0800	0400	1600	1200
0100	2100	0900	0500	1700	1300
0200	2200	1000	0600	1800	1400
0300	2300	1100	0700	1900	1500
0400	0000*	1200	0800	2000	1600
0500	0100	1300	0900	2100	1700
0600	0200	1400	1000	2200	1800
0700	0300	1500	1100	2300	1900

* 0000 and 2400 are interchangeable. (0000 with the day just starting; 2400 is associated with the date of the day ending.)

Technician Class License Privileges

US Amateur Transmitter Power Limits

At all times, transmitter power must be the minimum necessary to carry out the desired communications. Unless otherwise noted, the maximum power output is 1500 watts PEP. Novice/Technicians are limited to 200 watts PEP on HF bands. Geographical power restrictions apply to the 70 cm, 33 cm and 23 cm bands; see *The FCC Rule Book* for details.

80 Meters

3.525-3.600 MHz: CW Only

40 Meters

7.025-7.125 MHz : CW only

15 Meters

21.025-21.200 MHz: CW Only

10 Meters

28.000-28.300 MHz: CW, RTTY/Data -- Max 200 W PEP 28.300-28.500 MHz: CW, Phone -- Max 200 W PEP

6 Meters

50.0-50.1 MHz: CW Only 50.1-54.0 MHz: CW, Phone, Image, MCW, RTTY/Data

2 Meters

144.0-144.1 MHz: CW Only 144.1-148.0 MHz: CW, Phone, Image, MCW, RTTY/Data

1.25 Meters

222.00-225.00 MHz: CW, Phone, Image, MCW, RTTY/Data

70 Centimeters

420.0-450.0 MHz: CW, Phone, Image, MCW, RTTY/Data

33 Centimeters

902.0-928.0 MHz: CW, Phone, Image, MCW, RTTY/Data

23 Centimeters

1240-1300 MHz: CW, Phone, Image, MCW, RTTY/Data