

May, 2012

Seattle, Washington

The BEAR FAX

Boeing Employees Amateur Radio Society



General Meeting Dates and Locations

- May:** Second Saturday, May 12, Red Barn Classroom, Red Barn basement, MOF
- June:** First Saturday, June 2, Northwest Aero Club Room, Red Barn 1st floor, NW Corner, MOF

MOF Volunteers Work on Lighting

The BEARS Volunteers worked on the lab test bench in the basement of the MOF this month. Conduit has been put in for a 480 volt test position to permit bench testing of the large parking lot luminaires. However, there isn't enough money yet for the required circuit breaker. Several of the lighting standards in the main (east) parking lot of the MOF have been removed in preparation for 787 delivery activities by Boeing next month. To facilitate this, the volunteers installed quick disconnects at the base of each of these standards that enable non-electricians to remove and reinstall them safely.

Ray McCaw, KB7OPQ

Elecraft KX3: Design Challenges of a Handheld SDR

The ground-breaking Elecraft KX3 portable HF+6 meter station presented many challenges to the design team. The most obvious, of course, is the small size. But what about the transceiver architecture? Power consumption? Performance? Is it really a software defined radio (SDR)? Learn the answers to these and other questions as Lyle Johnson, KK7P, part of the KX3 design team, describes the KX3 journey from concept to reality.

Lyle was first licensed as WN6JLR at age 13 and has been an amateur radio operator for the past 49 years. His professional career has spanned the gamut from designing systems for underground mining to designing flight computers for earth-orbiting satellites. For the last 9 years, he has been primarily employed as an engineer for Elecraft. In spite of his age, he likes to apply the latest appropriate technologies in his quest to design high-performance, fun products for the Amateur radio market.

Contest Column

I'm happy to report some progress has been made at the K7NWS shack during the past month. The configuration of the K3 HF station was upgraded with resolution of some interface issues between the station computer and the radio. The issue was an incompatibility of the computer's built-in RS-232 port (aka COM port) and the RTTY interface. We resolved it by installing an add-on RS-232 board that was provided by Stu Tracy, N7RVF. The station is now working on RTTY, running the MMTTY software package. Because both DX Lab Suite and N1MM Logger software employ MMTTY to operate RTTY, this covers the bases for both general use and contesting RTTY operation at the station.

The software installation at the K3 station was also upgraded and configured. Also, Logbook of the World (LoTW) software was installed and configured. LoTW interfaces with the DX Lab Suite DXKeeper logging program to make uploading and tracking of

(Continued on page 4)

General Membership:

- General membership meeting Saturday, May 12 at 8:30 AM in the Red Barn Classroom at the Museum of Flight.
- The May program will feature Lyle Johnson, KK7P, speaking on the "Design Challenges of the new Elecraft KX3."
- The BEAR FAX needs articles and pictures. Get busy with that computer and camera.
- Field Day is coming up fast! Are you ready?

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April 2012 General Meeting Minutes

The meeting was called to order by President Roger Swann, WB7VQX, at 8:30 AM, April 7, 2012 at the Museum of Flight in the Northwest Aero Club room. The meeting was opened with the Pledge of Allegiance. Members and guests were introduced. 23 members were present and the BEARS sign in sheet showed 26 attending.

Correspondence: None.

Secretary's Report: Mike Lewis, KB7KYA, reported that the March minutes were printed in the April BEAR FAX and were open for review. No additions or corrections were needed.

Treasurer's Report: Glen Kristensen, N7UIG, reported the total expenses for last month were \$375.38, with \$114 income from membership dues, \$275 in ham fest pre-sale, \$61.25 in cash on hand, \$20.05 in the hamfest cash box, \$0.24 in interest, \$1,844.91 in the savings account, and \$745.88 in the checking account for a total of \$2,672.09.

Trustee Report: None.

Membership Report: Roger reported for Jack Williams, W7HNN, that membership is 39 employees, 11 employee family, 70 retired, 13 retired family, 2 vendor, 1 vendor family, 2 sanctioned, 3 associate, and 9 complimentary, for a total of 150 members.

Digital Report: None.

Repeater Report: None.

Satellite Report: None.

Beacon Report: None.

QRP Report: None, although Phil Decaire, WB7AEI, did write an article

for the April BEAR FAX.

HF Report: Larry Shirk, AA7UA, showed a short video of a tour through the International Space Station. The BEARS enjoyed watching the tour guide effortlessly drifting through the various modules of the Station. Of course, someone had to ask "Which way is up?" Larry also talked about the founder of the ARRL, Hiram Percy Maxim, who was an engineer/inventor from Hartford, Connecticut.

Contest Report: Don Sandstrom, W7VXS, presented slides showing the present and predicted propagation conditions, and explained the trends exhibited by this solar cycle.

Facilities, Emergency Services, Historian, and Field Day Report: Ray McCaw, KB7OPQ, met with personnel from the Puyallup EOC to begin the process of coordinating a combined field day operation. The BEARS have agreed to provide a portable potty to take the load off the facilities in the EOC. Also arrangements for cooking and for access via the gate after dark were discussed.

Newsletter Report: Larry Hughes, WA7GOK, reported that the BEAR FAX went out on time.

MOF Activities: None.

Old Business: The IRS filing is completed. The Evergreen Intertie funds where sent.

New Business: The FCC is seeking public comments on emergency communications by amateur radio and on impediments to amateur radio emergency communications. The period for public comment runs until May 17, 2012. (More information on this subject can be found by going to <http://www.fcc.gov/document/commission-seeks-comment-amateur-emergency-communications>. ed.)

Program: Don Sandstrom, W7VXS, presented a overview of contesting including station building, software selection, pre contest preparation, contest operation, and post contest log submission. Contest preparation included learning the contest rules and exchange as well as updating software, repairing equipment, and testing both. He also mentioned that it was important to have fun and to complete any "honey do" jobs before trying to participate in a contest.

Minutes recorded by Mike Lewis, KB7KYA, Secretary



Don Sandstrom, W7VXS, begins his presentation on contesting with an introduction to some contesting software.

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May 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 BEAR FAX mailed AGCW QRP/QRP Party	2	3 BEAR FAX put on web site and E-mailed	4	5 10-10 Int. Spring Contest, CW 7th Call Area QSO Party New England QSO Party
6 Continued: 10-10 Int. Spring Contest, CW 7th Call Area QSO Party New England QSO Party	7 RSGB 80m Club Championship, SSB	8	9 Digital Committee 5:00 PM, contact Glen Kristensen, N7UIG	10 Executive Board 7:00 PM, contact Roger Swann, WB7VQX	11 Stanwood ARC Hamfest VOLTA WW RTTY Contest CQ-M International DX Contest	12 General Mtg. 8:30 AM, Red Barn Classroom, Museum of Flight
13 CQ-M International DX Contest (cont.) VOLTA WW RTTY Contest (cont.)	14	15	16 RSGB 80m Club Championship, Data Hibernating BEARS 10:00 AM, contact Ray McCaw, KB7OPQ	17	18	19 BEAR FAX cut off Feld Hell Sprint
20	21	22	23 BEAR FAX complete	24 RSGB 80m Club Championship, CW	25 BEAR FAX mailed	26 CQ WW WPX Contest, CW
27 CQ WW WPX Contest, CW (cont.) SARL Digital Contest	28	29	30	31 Executive Board 7:00 PM, contact Roger Swann, WB7VQX		

Club Activities

The BEARS General Membership meets monthly except July and August at 8:30 AM on the first Saturday of the month. If the first Saturday is on a Boe-ing holiday weekend, the executive board and general membership meetings are held one week later than normal. Meet-ings are held in the Red Barn Classroom at the Museum of Flight unless otherwise noted on the front page of this newsletter. The talk in frequency for the General Meeting is 145.51MHz simplex.

The Executive Board meets from 7:00 PM to 9:00 PM at an officer's home on the Thursday preceding the General Membership meeting. BEARS members having business to bring before the Ex-ecutive Board are requested to contact the president so that your business can be placed on the meeting agenda.

The Digital Committee occasionally meets at 5:00 PM on the 2nd Wednesday



of the month. Contact Glen Kristensen, N7UIG, for information.

The Hibernating BEARS meet at 10:00 AM on the 3rd Wednesday of the month at various locations. Contact Ray McCaw, KB7OPQ, for information.

The HF Group gets together for short meetings following a General Member-ship meeting. Contact Larry Shirk, AA7UA, if you are interested.

The QRP Group promotes low power (less than 5 watts) operation. There are no scheduled meetings at this time. Con-tact Steve Barrett, N7BVY, if you are

interested.

The BEARS K7NWS voice repeaters: 145.330, 224.340, and 442.075. These repeaters are located about 20 miles east of Seattle at an elevation of 2600 Feet on West Tiger Mountain and can be con-nected to the Evergreen Intertie. The Evergreen Intertie is a loose confedera-tion of repeaters located between Salem, Oregon; Seattle, Washington; and Spo-kane, Washington that can be linked to-gether to enable a user to communicate over a large portion of Washington and Northern Oregon. For more information subscribe to <http://groups.yahoo.com/group/evergreenintertie/>.

The BEARS APRS Digipeater: 144.390

The BEARS Beacon is on 10 Meters at 28.2645 MHz. and has a CW ID.

The BEARS Web Page is at www.qsl.net/k7nws.

Contest Column (cont.)

QSOs on LoTW very easy. All interaction with LoTW takes place from DXKeeper's QSLing interface. Now that we have internet access in the shack, this allows quick upload of QSO data as well as easy tracking of LoTW QSL status. Check the following web site for information on how to upload QSOs and check/update QSL status:

www.dxlabsuite.com/dxlabwiki/QSLinqLotW.

The 7th Call Area QSO Party (7QP) is coming up this month, on May 5-6. Operation will take place from 1300 UTC Saturday to 0700 UTC Sunday (6:00 AM to midnight PDT Saturday, May 5th). Because our monthly BEARS general meeting normally falls on the 7QP Saturday we normally have a conflict with this event. This month the meeting will be held a week later, so BEARS members can look forward to uninterrupted operation in this year's 7QP.

7QP is an operating event for all states in the 7th call area: Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming. The contest is sponsored by the Central Oregon DX Club and has been held each year since 2006. 7th call area stations may work stations outside the 7th call area for QSO credit, and stations outside the 7th call area contact only 7th call area stations for QSO credit.

7th call area stations send signal report plus a five-letter state/county code. The code for King County is WAKNG and for Pierce County it is WAPIE—see the full county abbreviation list at

<http://www.codxc.com/new/Page.asp?Content=DRYLAND7S&Page=4>.

Non-7th-area stations send state or province or "DX" two-letter codes. The 13 Canadian province codes are VE1-9, VO, and VY0-2.

Operation can be on SSB, CW, or digital modes. SSB QSOs score 2 points, and CW or digital score 3 points. Multipliers for 7th call area stations are US states (50), Canadian provinces (13), and other DXCC countries up to a maximum of 10. Non-7th area stations multiply QSO points by 7th call area counties worked—there are a total of 259 counties in the eight states.

The rules require electronic submission of all logs containing more than 40 QSOs. Besides logging software, an electronic submittal can be made using a web form for entry of log data. See the contest web site for full information and rules at www.7qp.org. The web site also has a link to tips on logging software.

One factor that makes this contest interesting is the fact that a number of other contests are taking place at the same time. For example, the New England QSO Party (NEQP) takes place from 2000 UTC Saturday to

0500 UTC Sunday and from 1300 UTC to 2400 UTC Sunday (1:00 PM – 10:00 PM PDT Saturday and 6:00 AM – 5:00 PM PDT Sunday). Stations can log the full exchange received from these stations and then submit the log for entry in both 7QP and NEQP. See the discussion on how to do this on the 7QP web site at <http://www.codxc.com/new/Page.asp?content=7qp2>. The NEQP web site is at www.negp.org.

Another major contest event this month is the CQ World Wide WPX CW Contest, to be held May 26-27 from 0000 UTC Saturday to 2359 UTC Sunday (5:00 PM PDT Friday to 4:59 PM PDT Sunday). This is the third of the annual series of WPX contests—the WPX RTTY contest was held on February 11-12 and the WPX SSB contest was held on March 24-25. In this series, any station may contact any other station for QSO credit. Various points are awarded depending on station location and band. Multipliers are callsign prefixes, which are counted only once. If propagation is favorable, it should be possible to work stations in many DXCC countries in this contest. There should be plenty of participation. Full details and rules are at www.cqwpw.com.

Besides 7QP and NEQP, state QSO parties scheduled this month are Indiana, 5-6; and Nevada 12-13.

Don Sandstrom, W7VXS

April Meeting Pictures



Mike Lewis, KB7KYA, was the first to be called for a door prize. He picked up a vise that he donated to the BEARS Shack to aid with repair work.



There must be something very interesting in that little box that Paul Feider, KC7GSZ, (left) and Larry Hughes, WA7GOK, are examining so closely! Alas, it was just a part from a 1933 Stewart Warner radio that Larry is working on.

President's Corner

I received an unexpected email last week. There was an item in my inbox titled: "You have been selected..." It was from the ARRL Emergency Communications Advisory Committee (ECAC) and was a short survey with the stated purpose of determining "...whether any amateurs have been prevented from direct participation in an actual emergency situation or training because of Home Owners' Association (HOA) rules, deed restrictions, or CC&Rs (Covenants, Conditions, and Restrictions)." I am not sure how widely this survey has been distributed or how amateur operators were selected to participate. I will summarize here for those you who did not see it. The main section asks for dates and events where one or more of the above items interfered with the amateur's participation in an actual amateur radio emergency communication event or with training for same. In my case, there have

been no such occasions. For many of you, the story may be different. The survey only required a few minutes to complete. If you have received one of these survey emails, do respond, as it is important to get good information on how these kinds of rules are impacting amateur radio emergency communication.

I was reading an electronics store ad this week and spotted a tiny USB WI-FI device for sale. The thumbnail size USB connector was the bulk of the device. I have seen similar devices, but this one got me to thinking about just how amazing this technology really is. This small little blob contains a sophisticated 802.11 transceiver. Think back to the early 1900s when radios were sort of a mystical thing and a household might have one AM broadcast band receiver, which contained several vacuum tubes and resembled a large

piece of furniture, in their living room. Of course, amateur radio has always been on the cutting edge of this technology revolution. I believe that the constant innovation of technology is what makes the hobby so interesting and continually new. Just when you believe you have "seen it all," there is a new RF device or mode to experiment with. I can hardly wait to see what the next "new thing" will be.

Do remember that Field Day is just around the corner and that it is always a good time to try out new radios and antennas of all flavors. Also, Field Day is a good opportunity to gain experience in operating under less than perfect conditions in an "emergency like" environment as well as an opportunity to have some ham fun. I encourage all BEARS to participate.

73, Roger Swann, WB7VQX

May QST Has Article on Official Observers

On page 67 of the May issue of QST there is an interesting article on the ARRL Official Observer (OO) program. The article presents information on the intent of the OO program,

what the OO's can and cannot do, provides a brief history of the OO program, and describes their relationship with the FCC. BEARS member George Hoffman, W7POE, is an OO

and after reading this article, you will have a better idea of the service he and his fellow OO's provide.

Larry Hughes, WA7GOK

June 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				<i>May 31</i> Executive Board 7:00 PM, contact Roger Swann, WB7VQX	<i>1</i>	<i>2</i> General Mtg. 8:30 AM, NW Aero Club Room, MOF Wake-Up! QRP Sprint Sea-Pac Hamfest, Seaside
<i>3</i> Sea-Pac Hamfest (cont.)	<i>4</i> RSGB 80m Club Champi- onship, Data	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i> Asia-Pacific Sprint, SSB ARRL June VHF QSO Party Port Ludlow ARC swap meet* Wenatchee Hamfest*
<i>10</i> ARRL June VHF QSO Party (cont.)	<i>11</i>	<i>12</i> NAQCC Straight Key/ Bug Sprint	<i>13</i> RSGB 80m Club Champi- onship, CW Digital Committee 5:00 PM, contact Glen Kristensen, N7UIG	<i>14</i>	<i>15</i>	<i>16</i> SARL Youth Day Sprint Kid's Day Contest All Asian DX Contest, CW
<i>17</i> All Asian DX Contest, CW (cont.) Run for the Bacon QRP Contest	<i>18</i>	<i>19</i>	<i>20</i> NAQCC Straight Key/ Bug Sprint Hibernating BEARS 10:00 AM, contact Ray McCaw, KB7OPQ	<i>21</i> RSGB 80m Club Championship, SSB	<i>22</i>	<i>23</i> Marconi Memorial HF Contest ARRL Field Day
<i>24</i> Marconi Memorial HF Contest (cont.) ARRL Field Day (cont.)	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>	<i>30</i>

* "Source: PNW Hamfair webpage at <http://www.n7cfo.com/amradio/hf/hf.htm>."

Nets	Time	Frequency	Activity
Mon/Fri	5:45 AM	145.33	Weather Net
Mon/Fri	4:45 PM	145.33	Weather Net
Monday	8:00 PM	145.33	YL Net
Tuesday		145.33	Open
Tuesday	8:30 PM	28.3565	CW Net
Wednesday	11:15 AM	145.51 Simplex	BACS
Wednesday	8:00 PM	145.33	General Info & Technical Net
Thursday	8:00 PM	145.33	Computer & Packet Net **
Friday	8:00 PM	145.33	Youth Net **
Saturday	9:00 AM	145.33	Swap Net
Sunday	12:01 AM	145.33	Night Owls **
Sunday		145.33	Open
Sunday	10:00 PM	145.33	Northwest Astronomy Net

** Not active, need net control. If interested, contact Ray, KB7VMS

Boeing Amateur Radio Clubs

Autonetics Radio Club:

www.gsl.net/k6nx

BEARONS:

<http://myplace.frontier.com/~evernhamms91/bearons.htm>

BEARS—Huntington Beach

<http://minear.homeunix.com/bears-hb>

BEARS—Philadelphia

BEARS—Seattle

www.gsl.net/k7nws

BEARS—St. Louis

www.w0ma.org

BEARS—Wichita

<http://home.southwind.net/~bears/>

Boeing Portland Amateur Radio Club—N7PDX

POC: Duane Shults, N7QDN (n7qdn@arrl.net)

DACARC (Long Beach)

POC: Ed Mitchell 562-982-6943

Hughes Ham Club

<http://users.aol.com/w6ha/w6ha1.htm>

2012 Executive Board

POSITION	NAME	CALL	HOME PHONE	WORK PHONE	E-MAIL ADDRESS	MAIL CODE
President	Roger Swann	WB7VQX	253-941-0935		wb7vqx@arrl.net	
Vice President	Don Sandstrom	W7VXS	206-232-3471	Retired	don.sandstrom@mailaps.org	US Mail
Treasurer	Glen Kristensen	N7UIG	253-630-1085			
Secretary	Mike Lewis	KB7KYA	253-631-3502	Retired	kb7kya_mike@comcast.net	US Mail
Trustee	Henry Oman	K7HO	206-878-4458	Retired	h.oman@ieee.org	US Mail

2012 Standing Committees

POSITION	NAME	CALL	HOME PHONE	WORK PHONE	E-MAIL ADDRESS	MAIL CODE
Facilities/Historian/ Fld Dy/Emergcy Svcs	Ray McCaw	KB7OPQ	253-891-1353	Retired	kb7opq@comcast.net	US Mail
Membership	Jack Williams	W7HNNH	509-674-5758	206-228-9987	w7hnh@arrl.net	US Mail
Repeater	Ray Fletcher	KB7VMS	206-935-6564	Retired	kb7vms@comcast.net	US Mail
Digital	Glen Kristensen	N7UIG	253-630-1085			

2012 Special Committees

POSITION	NAME	CALL	HOME PHONE	WORK PHONE	E-MAIL ADDRESS	MAIL CODE
Satellite	Stu Tracy	N7RVF	425-228-1765	Retired	n7rvf@aol.com	US Mail
HF Group	Larry Shirk	AA7UA	206-824-4004	Retired	aa7ua@arrl.net	US Mail
Contesting	Don Sandstrom	W7VXS	206-232-3471	Retired	don.sandstrom@mailaps.org	US Mail
Emergency Svcs.	Ray McCaw	KB7OPQ	253-891-1353	Retired	kb7opq@comcast.net	US Mail
QRP Group	Phil DeCaire	WB7AEI	253-630-6734		radioWB7AEI@comcast.net	
Librarian	Ray McCaw	KB7OPQ	253-891-1353	Retired	kb7opq@comcast.net	US Mail
Meeting Equip- ment Operator	Don Sandstrom	W7VXS	206-232-3471	Retired	don.sandstrom@mailaps.org	US Mail
Meeting Door prizes	Chris Kendrick	KE7RGI	425-306-0992		slotforce@aol.com	
Newsletter	Larry Hughes	WA7GOK	360-432-0689	Retired	handlhughes@aol.com	US Mail
Newsletter mailing	Steve Hopkins	WA7NTL	425-238-0262			
Web Pages	John MacDuff	KA7TTY	425-392-7623		ka7tty@arrl.net	
Direction Finding	Ray Fletcher	KB7VMS	206-935-6564	Retired	kb7vms@comcast.net	US Mail
Evergreen Intertie	Jack Williams	W7HNNH	509-674-5758	206-228-9987	w7hnh@arrl.net	US Mail
10M Beacon	Phil DeCaire	WB7AEI	253-630-6734		radioWB7AEI@comcast.net	
QSL Manager	John McLaren	KC7MIQ	253-850-5947		kc7miq@arrl.net	

2012 Repeater Control Operators

POSITION	NAME	CALL	HOME PHONE	WORK PHONE	E-MAIL ADDRESS	LOCATION
Operator	Jack Williams	W7HNNH	509-674-5758	206-228-9987	w7hnh@arrl.net	Cle Elum
Operator	Ray Fletcher	KB7VMS	206-935-6564	Retired	kb7vms@comcast.net	Seattle
Operator	Dan Meadows	N7PWO	206-878-2404			Des Moines
Operator	Stu Tracy	N7RVF	425-228-1765	Retired	n7rvf@aol.com	Renton
Operator	Bob Osness	AE7EE	425-432-5887	Retired	ROsness@copper.net	Maple Valley
Operator	Ray McCaw	KB7OPQ	253-891-1353	Retired	kb7opq@comcast.net	Bonney Lake
Operator	Ermanno Rusi	N7VIQ	425-392-6864	Retired	e.rusi@comcast.net	Sammamish
Operator	Ralph Javins	N7KGA	425-481-7418	—	—	North Creek
Operator	Debbie Riehl	N7FL	425-481-7418	—	—	North Creek

BEARS Membership Application.

Valid for Year 2012 Memberships Only.

Name _____, Date _____

Call _____, Class of License _____, Expires _____

Street _____

City _____, State _____, ZIP _____

Home Phone _____, Check if you do not want it published _____

BEMSID _____, Organization # (employees only) _____

Retirees, you may obtain your BEMSID by calling Boeing Total Access at 1-866-473-2016. Other non employees or non retirees must have an employee or retiree sponsor. Enter your sponsor's BEMSID. If necessary, please contact a club officer for help with this item.

Work Phone _____, Mail Code _____, E-mail Address _____

➔ Newsletter distribution option: _____ US Mail, _____ E-mail, _____ E-mail notification only, _____ Boeing Mail

Application type: _____ New, _____ Renewal, ARRL Member (Y/N) _____

_____ Employee: _____ Annual dues \$15, _____ After 7/1 \$10 (New only), _____ After 10/1 \$5 (New only)

_____ Employee family member: _____ Annual dues \$3, _____ Free after 10/1 (New only)

_____ Retiree Annual dues \$10, _____ Retiree family member Annual dues \$3

_____ Vender Annual dues \$15, _____ Vender family member Annual dues \$3

_____ Associate Annual dues \$10 (Must also fill out Associate Members Application for the Initial year only)

_____ Sanctioned Annual dues \$15 (Renewal only – No new applications)

(Family members must be spouse or dependent child of primary member **and must sign a separate application**)

Check here _____ if you would like to be included in the list given to local suppliers that agree to provide discounts to BEARS members. The suppliers will be authorized to use this list for mailings of their special offers. No redistribution or sale of the list by the supplier to other parties will be authorized.

Primary ham radio interests:

Operating

_____ HF CW/SSB, _____ HF Digital (AMTOR, RTTY), _____ VHF/UHF CW/SSB, _____ VHF/UHF FM,
_____ Packet, _____ Satellite, _____ SSTV/ATV, _____ QRP

Training

Teach class: _____ Tech, _____ Gen., _____ Extra, _____ Packet, _____ Satellite

Attend class: _____ Tech, _____ Gen., _____ Extra, _____ Packet, _____ Satellite

Club Activities

Field Day (June): _____ Attend, _____ Operate, _____ Help setup/cleanup
_____ Public Service events, _____ Transmitter hunts / DFing, _____ Contest/operating events,
_____ Experimenting/Homebrew

Facilities (Maintenance/expansion)

_____ HF, _____ VHF/UHF Repeater/links, _____ Packet, _____ Computer

Club Leadership: _____ Elected office, _____ Committee chair/member, _____ Bulletin publication

Release and Indemnity Agreement

I state that I wish to participate in activities offered by the Boeing Employees Amateur Radio Society, or the Boeing Employees Amateur Radio Operators North Society, (hereafter referred to as the "Amateur Radio Club") a Boeing Recreation Club. I RECOGNIZE THAT ANY AMATEUR RADIO CLUB ACTIVITIES MAY INVOLVE CERTAIN RISKS. I certify that I am aware of the risks involved in this activity, including but not limited to, the actions of any other club member, any participants or any other persons all of which may result in personal injury, death, property damage and other losses.

In consideration for the right to participate in the Amateur Radio Club activities, I HEREBY RELEASE THE AMATEUR RADIO CLUB AND ITS INSTRUCTORS AND MEMBERS AND THE BOEING COMPANY FROM ANY AND ALL LIABILITY, CLAIMS, AND CAUSES OF ACTION ARISING OUT OF OR IN ANY WAY CONNECTED WITH MY PARTICIPATION IN ANY AMATEUR RADIO CLUB ACTIVITIES. I PERSONALLY ASSUME ALL RISKS IN CONNECTION WITH THESE ACTIVITIES, AND FURTHER AGREE TO INDEMNIFY THE AMATEUR RADIO CLUB AND ITS MEMBERS AND INSTRUCTORS, AND THE BOEING COMPANY FROM ALL LIABILITY, CLAIMS AND CAUSES OF ACTION, WHICH I MAY HAVE ARISING FROM MY PARTICIPATION IN CLUB ACTIVITIES. The terms of this agreement will serve as a release and indemnity agreement for my heirs, personal representative, and for all members of my family, including minors.

I further state that I am eighteen (18) years of age or older and legally competent to sign this release, that I understand these terms are contractual and not a mere recital, and that I have signed this document as my own free act. (Parents or legal guardians must sign for all persons under eighteen (18) years of age).

I HAVE FULLY INFORMED MYSELF OF THE CONTENTS OF THIS RELEASE AND INDEMNITY BY READING IT BEFORE I SIGNED IT. **NOTE: Each applicant must submit an individually signed application.**

_____,
(Applicants' signature)

_____,
(Date)

_____,
(Guardians' signature if under 18 years) (Date)

Please make check payable to "BEARS" and mail the above completed and signed form to "BEARS/ Glen Kristensen" at M/C 8Y-58, via in plant mail, or at M/C 8Y-58, PO Box 3707, Seattle, WA 98124-2207, via U.S. Mail.

Boeing Recreation
Associate Membership Application

Club: _____

Membership Year: _____

Name of Associate Member: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Qualification: _____ Immediate Family Member* _____ Former Boeing Employee**

*Please indicate relation to member

_____ Father _____ Mother _____ Sister _____ Brother _____ Non-Dependent Child

**Former Boeing Employees are defined as those who either voluntarily terminated their employment or individuals who were previously employed by the company and terminated as a result of reduction in force. In addition, they must have been employed by the company and been active members of the club for which they are seeking associate membership for a minimum of 3 consecutive years immediately prior to their application for associate membership. Former employees must provide evidence of their termination status such as a copy of their resignation letter or a copy of their reduction in force notice prior to approval of their associate membership. This should accompany this application for associate membership.

If immediate family member, please indicate the sponsoring qualified member

Sponsoring Qualified Member: _____

Work Phone of Sponsor: _____

I agree to comply with all rules, by-laws and standards established for the safety and well being of the members of the Recreation Clubs.

Signature of Associate Member: _____

Please make a copy for club file and send original to Recreation, 4H-58