



SANDERSON FIELD R.C. NEWS



CHARTER NO. 3079

Club meeting at the Church

Thursday January 12th

CLUB MEETING

The PUD has closed the meeting room access until further notice due to COVID-19

Minutes from last months meeting:

The Christmas party went well, Bigfoot Hobbies donated a UMX Voodoo for the men's door prize and a very nice basket for the women's door prize. He also donated a Beechcraft D-18 for the MVP which was awarded to Aaron Cleveland.

Bob Treinen won the men's door prize and Sherry (Jeff's girlfriend) won the women's.

I want to remind everyone I'll be changing the gate/shed/Portapot combinations on the 1st so you will need to have your

2023 club card for the new combination after January 1st.

There are two days we can't use the runway this month, January 5th and 6th, Mason Transit will be there and it's possible they will be at the North end and we could fly. There's no way to know without going up there on those days and checking.

I found a good article on Lipo battery basics, I'm going to put a portion of it in the newsletter. It's a pretty long article, if you want to read the whole thing click the link below.

Or copy and Paste it into your browser

Understanding the Labels

Labels contain plenty of information, but understanding them is often confusing. A few simple definitions will help you.

- **3S, 4S, etc.:** Battery packs are composed of a number of cells in series and this number represents that. If the pack is listed as a 3S pack, then it has three individual cells connected in series within the pack, each with a nominal voltage of 3.7 volts. The pack's total will then be listed as an 11.1-volt pack. A 4S pack would be 14.8 volts, etc. (four cells x 3.7 volts = 14.8)

- **Capacity:** The capacity rating of a LiPo battery tells its output potential, or how long you can take power from the battery at a given rate before it reaches the cutoff voltage, or is discharged. The faster you take power from the battery, the less time it will last. Many times, our batteries' capacities are listed in milliampere hours (mAh) instead of ampere-hours (Ah). This is merely a metric conversion to a smaller unit— 1 ampere hour =

<https://www.amaflightschool.org/getstarted/lipo-battery-basics>

LIPO BASICS

1,000 milliampere hours, so 2.2 Ah is 2,200 mAh.

• **Discharge rating:** “C” represents a measure of the rate at which a battery can be discharged relative to its maximum capacity. If the battery is discharged at a rate higher than the discharge rating, the battery may be damaged, or worse, could pose a safety hazard, like a fire. If a battery’s discharge rating is 15C, it means that the most power that can be drawn from it at one time is equal to 15 times its capacity. Using the example of a battery which has a capacity of 2,200 mAh, this means that greatest flow of electricity you can safely get from the battery is $15 \times 2,200 = 33,000$ milliamperes (or 33 amperes). The discharge rating listed on the battery’s label is based on what the manufacturer believes the pack will handle during

discharge without degrading the pack. These discharge ratings, sometimes mistakenly referred to as C ratings, can be optimistic and are best used as a guideline. Packs with higher discharge rates have lower internal resistance (IR), which is a good thing. Many batteries with provide two discharge ratings such as 30C/60C. These represent the continuous and burst ratings. The first number means that it will continuously support a 30C discharge, and for short bursts (typically less than 15 seconds) it should support 60C. This allows for spikes during rapid throttle changes, but shouldn’t be something you use regularly. If you need higher current levels, buy a higher capacity/rated pack.

• **Internal Resistance:** This represents the internal resistance of a cell or pack. Some chargers

will test the IR for each cell within a pack during the charge cycle. As internal resistance increases, the battery efficiency decreases. So as a general rule, the lower the resistance the more punch a battery will provide. It’s nice to know, but not something to get hung up over as a beginner. As a rule, packs advertising a high discharge capacity will have a lower IR.

Battery pack labels are often the manufacturer’s attempt to put its product in the best light. A pack rated as a 65C pack and sporting small-gauge wires to the connectors won’t really handle that amount of current. Sometimes packs come with large-gauge wires, but they’re soldered to tiny tabs inside the pack, which negate the benefit of those monster wires. Shop carefully and use the best battery you can afford.

DUES ARE \$75 IF PAID BEFORE JANUARY 1ST, \$100 THEREAFTER.

IF YOU JOIN IN THE LAST QUARTER OF THE YEAR YOUR MEMBERSHIP IS GOOD FOR THE FOLLOWING YEAR.

IF YOU PAY BY MAIL SEND YOUR DUES, PROOF OF 2023 AMA MEMBERSHIP AND A SELF ADDRESSED STAMPED ENVELOPE TO THE TREASURER:

**BILL JUDGE
1726 STEWART ST.
Shelton WA 98584**

Make checks payable to SFRCF

CLUB OFFICERS

President..... Aaron Cleveland(360)490-2189
Vice President Dave Windom(406)279-7870
Treasurer Bill Judge(253)490-4742
Secretary Bob Beatty(360)229-3408
Safety Officer..... Jeff Sterba(360)490-5800

BOARD MEMBERS

Club officers are the board members

Alt Board Member John Sommer(360)968-9323
Alt Board Member Tom Strom(360)791-7729
Alt Board Member Paul Fleming.....(253)225-0780
Alt Board Member

January 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 6:30 PM SFRCF Board meeting	4	5 Mason count transit 1:00 PM Club flying day	6	7
8	9	10	11	12 SFRCF Club meeting 1:00 PM Club flying day	13	14
15	16	17	18	19 1:00 PM Club flying day	20	21
22	23	24	25	26 1:00 PM Club flying day	27	28
29	30	31	1	2 1:00 PM Club flying day	3	4

Pacific Time Time Zone

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Thursdays are ALWAYS weather permitting, check the weather at the field before leaving
 Sold days can change, check out the Port's website before heading to the field.

<https://portofshelton.com/inactive-runway-users-group/>

Club Scheduled Events for 2023

Event dates in black are scheduled. Events in gray are complete.

- January 1st First fly of the year - Sanderson Field - 9:00am
- June 3rd Winter build challenge - Sanderson Field- 9:00am
- June 4th General fly-in - Sanderson Field 9:00am
- July 14th-16th..... AMA Jamboree
- August ??..... Dawn Patrol To be scheduled
- Oysterfest October 7th & 8th??- Sanderson Field
- December 7th..... Christmas party

Dues \$75 before Jan 1st and \$100 on or after

Check out our web site at <http://sfrcf.quintex.com>