**Daniel Langis - NOAA Federal <daniel.p.langis@noaa.gov>**

# Burn Wire Module

**Dr. Harold T. Vincent** <bud@dbvtechnology.com> Fri, May 18, 2018 at 5:17 AM
To: Daniel Langis - NOAA Federal <daniel.p.langis@noaa.gov>

We will design with alkaline if that is your requirement.

We did a quick load test with 75 pounds, no problem. We did not go until breakage, but I don't think you would need more than 25 lbs based on what I understand (8 lbs positive float with 30 cm diameter?)

We will do our best to have units to you by 30 JUL, but we would need a green light on the project next week so we have time to order PCB's.

**From:** Daniel Langis - NOAA Federal <daniel.p.langis@noaa.gov>
**Sent:** Thursday, May 17, 2018 12:31 PM
**To:** Dr. Harold T. Vincent <bud@dbvtechnology.com>
**Subject:** Re: Burn Wire Module

Bud,

Awesome!

I will talk to my supervisor and the head of our engineering department about the NRE and see if that will work.

3 Questions for you:

- What is the approximate load limit on these if we use them in other applications?

- Would they have alkaline or lithium primary batteries? (We'd prefer alkaline because of shipping restrictions).

- Could you deliver 5 total of these by 30 JUL? We are currently looking at deploying them off the USCGC Healy on a trip that starts 05 AUG. (That window is super tight and doesn't allow much time for testing, so I will be looking into other options for deployment, but that may be our only shot this year)

Thanks again,

Dan

On Thu, May 17, 2018 at 5:15 AM, Dr. Harold T. Vincent <bud@dbvtechnology.com> wrote:

> Hi Dan,
>
> We did meet and we have developed a design concept (and actually mocked up a model). See attached.
>
> This design will leverage our existing timer circuit and will allow programming and actuation out to 2 years in the

future.

I am in the midst of some testing so it will be another day or 2 before I can get you a formal proposal and price quote, but here are the costs:

1. Engineering Design Phase $6,500 We will build 5 prototype units and conduct qualification testing on 2 (pressure test, cold actuation, and weight load). We would deliver 2 to you, and keep one as a spare.
2. This design will have a $750 target cost in QTY's of 5. Higher quantity purchases may result in lower cost (I know you would like a target cost of $500)

The units will meet your stated requirements and eliminate the need for the mechanical linkage (our unit would attach directly to your float). The system can be re-armed of recovered.

The unit is programmed and powered on by opening the unit and connecting to the circuit board.

We would provide a Tablet with the Programming App and USB programming cable.

We would deliver prototypes to you by 15 AUG.

Regards,

Bud