

Goals of Workshop

Prepare finalization of 1st prototype (this session)

Update on power consumption

Reliability (tomorrow morning):

- Usefull Lifetime: Final concept for **all** underwater parts
- Exceptional events: Preliminary list of events
- Initial Failures: Baseline concept for treatment
Estimate of ressources

Coordination with PMT (this afternoon):

- Decoupling capacitors
- Final okay overvoltage protection
- Update on thermal properties
- Positioning of HV-module

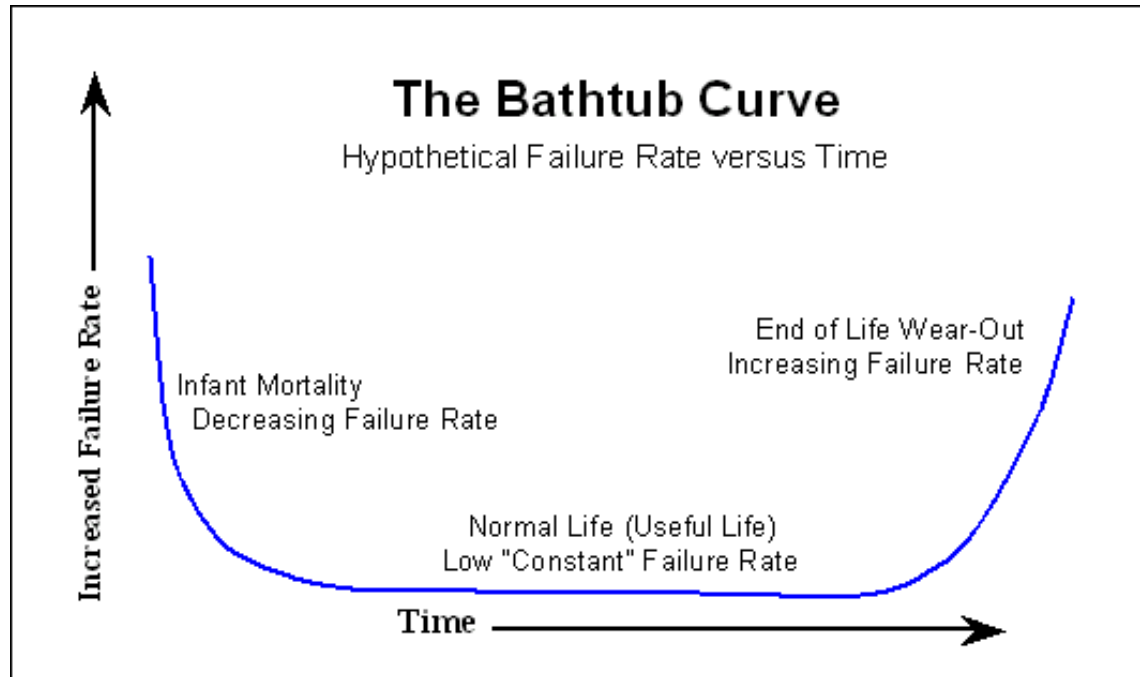
Finalize cable and connector

Master Schedule

Cost / Ordering problems / Shipping to China

First ideas on testing

Reliability



1. Normal Life: regular operation --- final plan
2. Normal Life: exceptional events --- produce a list of events
3. Infant Mortality: First ideas of a concept

Goal: < 0.5% failures of electronics within 6 years

Goal: $\lambda=95\text{FIT} = 95 \text{ Failures in } 100.000 \text{ years}$

Goal: MTTF (mean time to failure) $\approx 1050 \text{ years}$

Schedule

From Yifang's master schedule (August 2016):

Installation of first PMT:	2018.12.1	
Potting of first PMT:	2018.7.1	12 month potting

Derived from Yifang's Master Schedule

	start	
Final Electronics: Cycling Qualification Test	2018.5.1	(duration 12 months)
Final Electronics: Acceptance tests	2018.4.1	(duration 12 months)

From our schedule (twiki: current version 3.5) January 2016

Boards available for PMT mounting: 2018.5.1

That matches approximately!!!

Current Schedule says:

1st Prototype available:	2016.12.30
(testing: Jan – March 2017)	
2nd Prototype (testing finished):	2017.11.09
Production boards:	2018.5.1