## Ideas for the 2018-2022 Engineering & Sustainability Committee Workplan

1. There  is  a  need  for  IALA  guidance  to  identify  appropriate  standards  for  AtoN  equipment  for  regions around the world in relation to issues such as temperature conditions, enclosure ratings, UV conditions, peak  intensity  specification  for  LED  AtoN,  batteries,  optic  service  factor,  thermal  cap,  etc.  There is a number of sources of information on worldwide climatic conditions which can be referenced.
2. A workshop – Extreme heat, transmissivity ??.
3. A workshop - engineering support for e-navigation services, possibly associated with hot climates, radio propagation??
4. Develop guidance on AtoN simulation technology.
5. Buoy Stability testing procedure for use afloat – new guidance or expand existing.
6. Documentation update following Standards agreement:
   1. Guidance on Marine Signalling.
   2. WG2 guidance to develop?
   3. Update E-111 Port Traffic Signals.
   4. Update E-112 Leading Lights.
   5. Modern equipment in traditional lighthouses – guidance.
   6. Maintenance of LH structures.
   7. Telemetry review Guideline 1008.
7. Guidance on what constitutes a good Marine AtoN solar panel.
8. Navguide updates.
9. Colour fading of plastic buoys – methods to measure and assess.
10. Guidance on checking that 3rd party AtoN providers are actually providing what they are obliged to provide (possibly ARM cooperation).
11. Radar reflection properties of plastic buoys – guidance.
12. How to package monitoring information on AtoN status such that it can be fed into the Maritime Cloud as an MSP.
13. Guidance on protection zones in light and daymark sectors and radar/ VTS systems to avoid obstructions due to structures, mooring ships, etc and competing lights (possible ARM cooperation).
14. Cyber security (in cooperation with ENAV).
15. Joint ENG/ARM meeting or workshop?
16. Future AtoN services required 10 year forward (in cooperation with ARM and ENAV).
17. During the review of “Task 2.1.1 Develop further guidance on plastic buoys, systems & sensors” it was considered to propose a new structure for buoy related guidelines.

An overview drawing was created:

