Global Class SMRs where to start?

Clare Reimers, FIC Chair 2015

*Clean slate

- Envisioning science needs in 2035 and beyond.
- Understanding limits of current fleet.
- Seeing what other countries are building.

* Hull form
* Propulsion/Electrical Plant
* Payload (total and science)
* Crew and Science Party
* Speed
* Endurance

1. Principal Design Characteristics

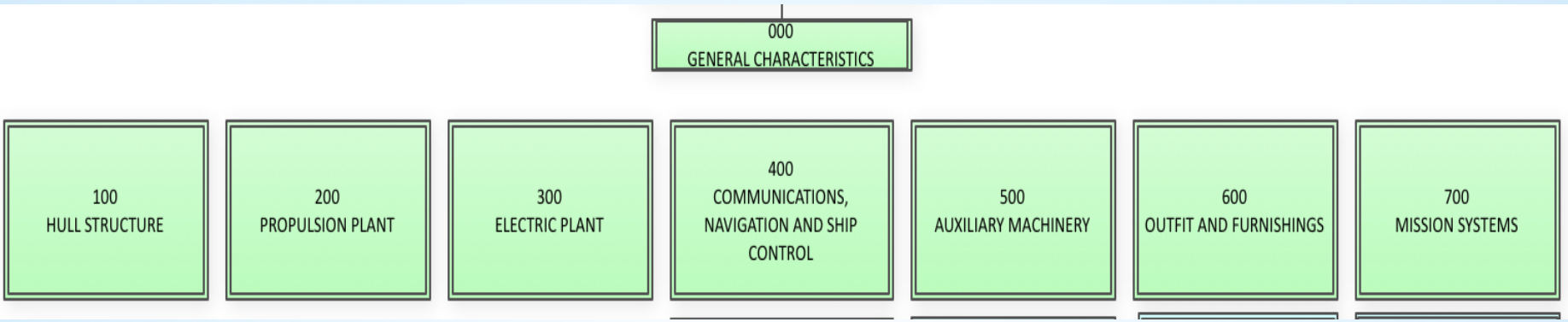
2. Mission Characteristics

- The ship will operate …..

  (ocean realms, endurance, sea state, ice classification….)

- The ship will be capable of ……

  (sampling, sensors, data collection, loads, communications, navigation, maneuvering, launch/recovery ops, laboratory facilities….)



A Ship's Work Breakdown Structure (SWBS) and detailed specifications are developed from the top level requirements

*Detailed Specifications

FIC tasks

* Develop a list of mission scenarios envisioned for future Global class vessels.

Example: Retrieve, service and redeploy the OOI Global moorings and gliders in the Southern Ocean, Irminger Sea, Argentine Basin, Station Papa

* From the mission scenarios and considerations of regulations and cost, establish principal design characteristics and mission characteristics.

Process

* Form subcommittee to draft mission scenarios to design and mission characteristics document
* Gather UNOLS community input
* Review iteratively
* Engage federal agencies
* In parallel FIC should develop a proposed acquisition process and timeline