17Jan2017 FCC
Marine communications
Rule Changes
as identified
15DEC2016
Emergency Position Indicating Radio Beacons (EPIRB)

- Only 406.0-406.1 EPIRBs with a built in GPS will be authorized for sale in the US.
- EPIRBs without position information may be used for the next 6 years.
- Clarification is made that older 21.5/243 MHz EPIRBs are prohibited. (This was adopted in 2002)
Personal Locator Beacons (PLBs)

- Must have an integral GPS
- Adding a test function structure and requirement
- Limit Calls to “Distress and Safety of Life” as opposed to “Distress and Safety Communications”
- PLB owners must register their devices with NOAA
  - Prefers the registration be completed on-line
- Sales of non-compliant PLBs will stop in 3 years
Satellite Emergency Notification Devices (SEND)

- No Established definition for the term “SEND”
  - Non 406 MHz emergency reporting subscription devices
  - Devices are not part of Marine FCC rules, but come under Part 25 – Mobile Satellite Services (MSS)
  - Appears to be referring to devices like “SPOT”.

- Developing standards for interface with providers into the maritime technical standards.

- Only devices marketed as SEND devices will meet the standards and interface to the Search and Rescue systems.
Maritime Survivor Locating Devices (MSLDs)

- Not a 406 device and monitored by personnel at the wearer’s facility
- Developed standards to allow additional responders
- Coordination of the Coast Guard for equipment authorization
- The function on the MSLD to report a distress condition is only permitted if endorsed by the Coast Guard in its pre-certification review.
Automatic Identification System
Search and Rescue Transmitter
(AIS-SARTs)

- AIS to transmit a unique code and position to be picked up by AIS vessels
- IMO has also authorized and FCC will incorporate the IMO standards
Ship Radar

- Standards for voluntary vessels Ships Radar were required to comply with international standard IEC62252.
- The required IEC 62252 requirement has been withdrawn
- A new standard is being developed
- Voluntary vessels may carry radar intended for solely on volunteer vessels without reference to any standard.
Portable Marine VHF Radios on Shore

- The present rules eliminate the use of marine portable VHF radios on shore.
- The GMDSS Task Force has convinced the FCC to allow use of portables adjacent to the water such as docks and beaches.
- Communications must relate to the operational and business needs of the associated vessel.
VHF Digital Small Message Services (VDSMS)

- The ITU has acknowledged that VDSMS is the proper direction to move with Marine VHF
- A standard was developed to allow digital messaging on VHF on a not to interfere basis.
- One communications standard/protocol has been established and we should expect to see digital messaging equipment in the market place. Not authorized on Channels:
  - 01A, 63A, 05A, 65A, 06, 66A, 67, 70, 12, 13, 73, 14, 74, 15, 75, 16, 76, 17, 77, 20A, 22A, AIS channels
Prohibition of transferring Ship Station License

- The FCC has agreed that the present system of requiring Ship Station radio license be canceled and not transferred to the new owner is not efficient.
- The rules will be modified to allow transfer of the Ship Station Radio License to the new boat owner.
- Failure to transfer control of the license to the new owner will result in actions against both parties.
New VHF Marine Channels Approved for 2017

Due to the increased need of more marine VHF channels for VTS, commercial requirements, and port operations, a recent ITU World Radio Conference has authorized and developed a new channel plan for the VHF marine radio frequencies. This new channel plan will take effect January 1, 2017.
New VHF Marine Channels Approved for 2017

Impact:
- Either upgrade your existing radio or buy a new one

The plan:
- Current duplex channels 19, 20, 78, and 79,
- Split into 8 new simplex channels.
- In the past the US has used A and B when we split an international duplex channel for simplex use e.g. 22A with 22B not being used.
- The ITU now has a 4 digit number such that 22A would now be represented as 1022 and 22B would be represented as 2022, if used.
New VHF Marine Channels Approved for 2017

Example for prior to 2017:
- Channel 19 is a duplex channel
- Transmit frequency = 156.950 MHz
- Receive frequency = 161.550 MHz

Beginning January 2017
- 156.950 MHz will become channel 1019
- 161.550 MHz will become channel 2019.
New VHF Marine Channels Approved for 2017

- Available for digital (text and email) Channels
  - 21, 22, 23, 24, 25, 26, 80, 81, 82, 83, 84, 85, and 86
- Channels may that may be used for AIS application testing
  - 27, 87, 28 and 88 (probably AIS-SART)
- 160.9 MHz
  - The unused frequency between present channels 65 and 66
  - To be used for testing of new applications.
  - Channel number: 2006.
## New Designators

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<tr>
<th>Past</th>
<th>New</th>
<th>Use</th>
<th>Past</th>
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<td>1022</td>
<td>Coast Guard Working</td>
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<tr>
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</table>

VDSMS = VHF Digital Small Message Service
Channels for Pleasure Craft

- Calling 9,
- Bridge to Bridge, Bridges: 13
- Emergency and Hailing: 16,
- Working Channels: 68, 69, 70, 71, 72, 1078
My Cruising Books

- Cruising Starting from Scratch
- Communications Made Simple for Cruisers
- ICOM IC M802 Made Simple for Cruisers
- Radar Made Simple for Cruisers
- Icom IC M802 Starting from Scratch
- *A New Ham I Am* Made Simple for Cruisers
- GMDSS Made Simple for Cruisers
- Cruising Log – Made Simple for Cruisers