



10 July 2018

Dear BSSTC member,

Agenda Item 9 – Top 20 BSS Faults information [Doc G2, BSSTC #52]

This is a report is provided with minimal commentary for members' information.

Top '20' requirements faults against Private Boat ECPs for the BSS Examiner registration year 1 April - 10 July 2018

There are 7,262 records for this period

Check Item	Check Text	Nos recorded
7.12.2R	Is the LPG system free of leaks as defined in the tightness test?	407
3.1.2R	Are batteries secure against excessive movement in any direction?	393
6.1.1R	Are the correct number of portable fire extinguishers provided, and do they have the correct fire ratings?	361
3.1.3R	Are battery terminals correctly insulated or protected?	280
3.6.5R	Is the location of all battery isolators, or the means to operate them, in open view, or their location clearly marked?	249
2.13.3R	Are all fuel shut-off valves or cocks, or their means of operation, in open view or their location clearly marked?	220
3.3.1R	Are all electrical cables supported in a safe position?	208
7.6.2R	Are the locations of all LPG system shut-off valves, or their means of operation, in open view, or their locations clearly marked?	213
8.8.1R	Are all LPG appliance burners in good condition and delivering a proper flame?	185
7.8.1R	Is the LPG pipework made of a suitable material, adequately secured and free from damage?	183
3.4.1R	Are all battery cable connections effective and in good condition?	178
2.10.2R	Are all fuel feed, return and on-engine hoses suitable for the fuel used and fire resistant?	174
8.4.3R	Are non-portable appliances properly secured against accidental or unintended movement?	169
3.6.2R	Do all electrical circuits pass through a battery isolator, or are those requiring a continuous supply otherwise protected? Drops four places	165
7.4.1R	Are all cylinders secured and stored upright with the valve at the top?	148
2.1.2R	Is the fuel in use correctly and clearly marked on or adjacent to the fuel filling point?	142
7.9.1R	Are all low-pressure LPG hoses accessible for inspection, of the correct material and in good condition?	132
6.2.1R	If the vessel has permanent cooking facilities, is a fire blanket of the correct specification provided?	128
2.12.2R	Are all fuel filters inside engine spaces fire resistant?	117
7.8.4R	Are all LPG pipe joints secure, in good condition and competently made?	114

While 7.12.2R – gas-tightness – has risen to the most numerous requirement comment compared with the annual figures; 7.8.1R concerning gas pipework has dropped four places in the table.

3.6.2R also drops four places

Two new entrants to the top 20 are expected in the form of 2.1.2R ‘fuel in use label’ and more unexpected 6.2.1R ‘fire blanket’.

Top Advice Checks faults against Private Boat ECPs for the BSS Examiner registration year 1 April 2017-31 March 18

There are 2,192 comments recorded in total on reports where the overall result was ‘Yes, but some advice checks did not pass’.

Check Item	Check Item Text	Nos recorded	Approx % of all advice comments
8.9.1A	Is the vessel provided with adequate fixed ventilation?	1221	55
3.9.2A	Do all a.c. electrical circuits pass through a consumer unit?	220	10
8.10.5A	Are all solid fuel appliances free of unintended gaps?	139	6
8.10.4A	Are all open flues to LPG appliances operating effectively?	122	6
8.10.2A	Are all appliance flues and exhausts complete and in good condition?	116	5
3.8.1A	Are all a.c. shore-power and battery charging lead inlet connections of the correct type in good condition, and suitably protected from the weather?	96	4
6.3.1A	Is the vessel provided with adequate means of escape?	89	4
8.9.2A	Are warning notices displayed on sea-going boats with closable ventilators?	43	2
8.10.1A	Are all appliances requiring a flue, or exhaust fitted with one?	33	1
3.8.3A	Are all shore-power, battery charging, and other a.c. power source leads and connectors in good condition?	31	2
8.10.3A	Do all appliance flues and exhausts terminate directly to outside air?	26	2
3.8.2A	Are all shore-power, battery charging, and other a.c. power source lead connections of a suitable type?	25	1
3.9.1A	Is it impossible to connect simultaneously more than one power source to the alternating current distribution system?	24	1
3.7.1A	Is the electrical system insulated from the hull?	7	1

Check 8.101A jumps up two places in this table compared to the annual report for meeting #51

Also Check 3.8.2A swaps a place with 3.9.1A compared with the annual report.

Activity year 2018-19 has so far been busier than any year since 2014 (four years ago so this is predictable). However, it still should be noted that while most figures around 25-35% of the annual activity last year, 8.102A, 6.3.1A and 3.8.2A have reached almost 50% of the total records for last year.

Top 20 Hire Boat Requirements 2017 faults April – November 2017

Check item	text	Recorded comments
X10.1.1R	Are all designated external Crew Areas, companionway steps, and boarding planks provided with suitable slip-resistant surfaces?	18
2.13.3R	Are all fuel shut-off valves or cocks, or their means of operation, in open view or their location clearly marked?	12
X10.1.3R	Is the arc of the narrowboat tiller clearly identified?	11
3.1.2R	Are batteries secure against excessive movement in any direction?	10
3.1.3R	Are battery terminals correctly insulated or protected?	10
3.6.5R	Is the location of all battery isolators, or the means to operate them, in open view, or their location clearly marked?	10
X10.8.1R	If the vessel has overnight accommodation, is at least one suitable smoke alarm provided?	7
X10.5.1R	Are accommodation space fixed ventilators protected by warning labels in open view?	7
2.11.1R	Are all fuel line connections of the correct type and free of signs of leaks?	8
3.3.1R	Are all electrical cables supported in a safe position?	8
6.1.1R	Are the correct number of portable fire extinguishers provided, and do they have the correct fire ratings?	7
X10.6.1R	Is all glazing material of a suitable type?	6
7.4.1R	Are all cylinders secured and stored upright with the valve at the top?	6
2.10.1R	Are all fuel feed, return and on-engine pipes made of suitable materials?	5
X10.7.3R	Are all through-hull openings above the normal laden waterline either watertight, or is the risk of water flooding into the interior of the vessel at the associated downflooding point minimised?	5
X10.2.1R	Are all lifebuoys of suitable proprietary manufacture and in good condition, and is at least one lifebuoy positioned in an appropriate location?	5
X8.9.1R	Is the vessel provided with adequate fixed ventilation?	4
X10.8.3R	If the vessel has overnight accommodation and an installed solid fuel stove, are the correct number of suitable carbon monoxide alarms provided?	4
X10.7.1R	Is the weed hatch opening at least 150mm above the normal laden waterline, and are the cover securing and sealing arrangements in good condition?	4
X10.1.2R	Are all designated external Crew Area decks provided with suitable handholds in good condition?	4
Remainder of Check Items linked to the new HBR 2017		
X3.9.2R	Do all a.c. electrical circuits pass through a consumer unit?	3
X10.8.2R	Are smoke alarms in good condition?	3

X10.7.2R	Are all through-hull openings located below the normal laden waterline protected by closable valves, and are the valves readily accessible and free of signs of leaks?	3
X10.4.2R	Are all means of escape, other than main doors, clearly marked with a suitable label in good condition?	2
X10.4.1R	Is the fire blanket fixed permanently in open view?	2
X10.8.4R	Are carbon monoxide alarms in good condition?	1
X10.3.1R	Is the boat provided with a means of reversing operable from every helm position?	2
X8.10.5R	Are all solid fuel appliances free of unintended gaps?	1

Of 40 examinations where the boat was not compliant, nine hire craft had 10 or more non-compliant check items. Two already had at least 20 comments.

Many items are not new or represent standard maintenance items

- 6.1.1R Are the correct number of portable fire extinguishers provided, and do they have the correct fire ratings?
- Basic electrical safety risks 3.1.2R & 3.1.3R, 3.3.1R and new in the chart 3.6.5R Is the location of all battery isolators, or the means to operate them, in open view, or their location clearly marked?
- 7.4.1R Are all cylinders secured and stored upright with the valve at the top?

Compiled by Rob McLean, **BSS Communications Manager**,

10 July 2018