

Canada Coast Guard Search and Rescue Vessels

1:20 Scale Models of Pennant Bay and McIntyre Bay



Jim Carnegie- November 21, 2018

1

THE BUILDING PROCESS - JIM CARNEGIE

Introduction

The Canadian Federal Government commissioned Hike Metal in Wheatly, Ontario to build several vessels for the Canadian Coast Guard. In June of 2017, I started with the construction of the models of Pennant Bay and McIntyre Bay and completed them in November of 2018. The models were unique in their design and an interesting challenge to build due to the complexity of their design. The following is a brief outline on the building process over the past year.



Construction Begins

Construction material for all major frame components was 1/4 inch birch plywood. The keels were laid and squared up on the building platforms with all frame positions clearly marked. Models were constructed with the same number of frames as the prototype vessels. Once all hull framing was complete the models were sheeted with 1/32 inch birch plywood, and covered with a layer of light fibreglass cloth and resin.



As work progressed, hull openings were cut for the placement of the running hardware, and channels installed for the large rubber fenders.

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With the hull completed it was time to begin construction on the deck house. Some components such as the large towing winch had to be made for proper placement within the deck house structure.

As work continued on the deck house and flying bridge, I also started construction on the large brass mast which holds all lights and navigation equipment.

