

NSCL-HP NDB Antenna

For use on Offshore Oil Platforms, where, NDB transmitters are installed using remote tuning devices.

List of Materials

1. 300 Feet, 3/16", 7 x 19, 304SS aircraft wire.
2. 3 insulators
3. 12 Antenna aluminum pipes schedule 40, c/w Delrin rod insulators and stainless steel hardware.
4. 24 # HAS 60 all stainless steel gear clamps.
5. 3 clips wire 3/16" HD 316 SS

Safety Note

Please ensure that all safety precautions are taken when working at heights and near the edge of any structure. You are responsible for your own safety. New Scotland Communications Ltd. shall not be held responsible for injury or death stemming from the installation or use of this antenna.

Specifications

Frequency Range:	150 Khz to 600 Khz
Resonant Frequency:	2.5 Mhz to 4.5 Mhz (depending upon installed length)
Power Rating:	1000 Watts
Wind Load:	Up to 150 miles per hour
Ice Loading:	Up to 12 mm ice accumulation

Installation Instructions

This antenna will give many years of trouble free performance in the harsh environment of Offshore Oil Production Platforms. The antenna is easily installed as long as you take care when uncoiling the antenna wire to prevent kinking. This is best done using two people to handle the feeding of the wire through the insulators.

First, lay all of the antenna support poles spread apart along the edge of the Helicopter Landing Deck. Start feeding the antenna wire through the holes provided in the ends of the support pole insulators. When you reach the end install the first egg insulator, and clamp using one of the wire clamps provided. Install the second insulator loosely on the other end of the antenna wire. Connect the same end of the wire as you just slid the insulator to the output terminal of the tuner.

Next, install the first of the support poles underneath the pole supporting the catch wire mounted around the Heli-deck. You can now mount the loose egg insulator to keep the wire clear of any obstructions.

Ensure that you mount this insulator in such a way so that there is no strain put on the output connector of the tuner.

Install the rest of the support poles in the same manner and tie off the far end egg insulator to a suitable support. If you cannot get the full amount of wire installed install as much as practical given the restrictions placed by the rig configuration. Try to have at least 150 feet of the wire clear of the Heli-deck.

Warranty

New Scotland Communications Ltd. warrants our products for a term of one year on workmanship and materials. This warranty will cover materials and labour when the goods are returned to our plant. We do not cover shipping.

New Scotland Communications Ltd.

P.O. Box 8808

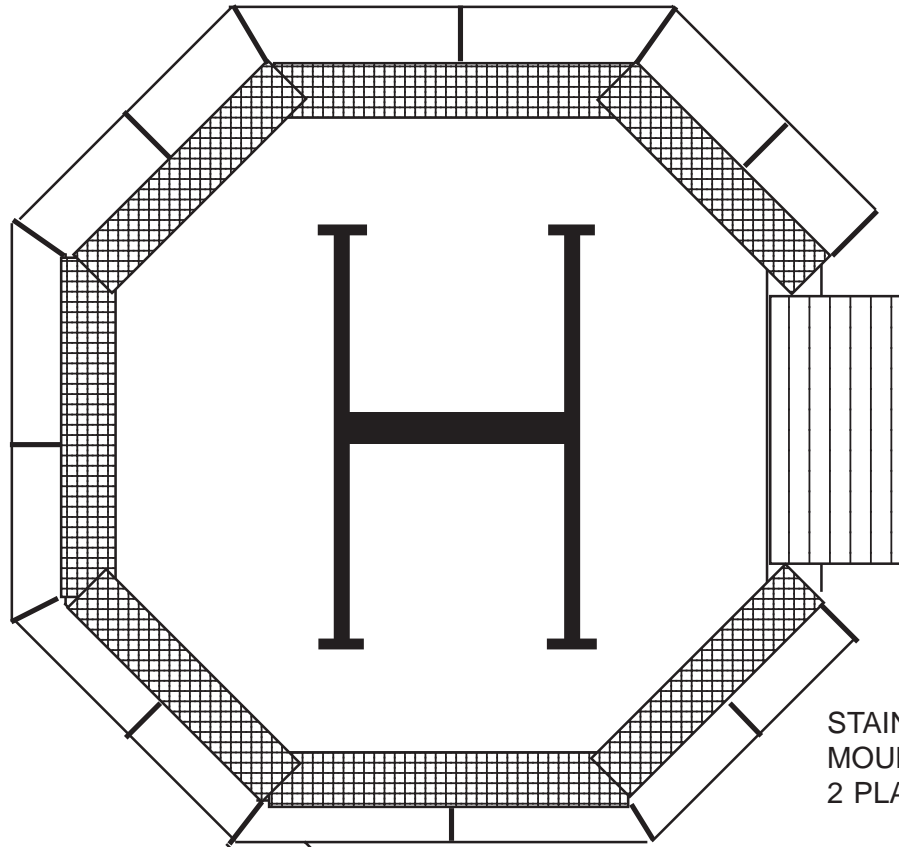
Halifax, N.S.

B3K 5M4

Phone: 902-865-9414

Fax: 902-865-3104

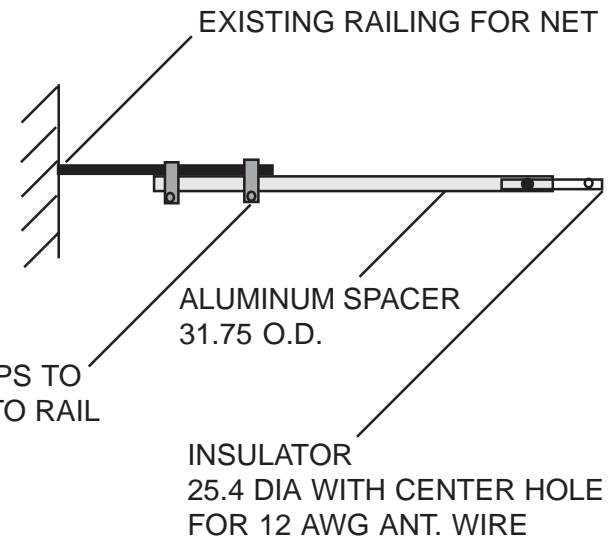
NDB LONG WIRE ANTENNA DETAILS



80 METERS LONG WIRE ANTENNA

3.3 METER LONG ALUMINUM SPACERS WITH 300 MM DURALIN ROD FOR ISOLATION. SPACERS ARE MOUNTED AROUND THE DECK.

STAINLESS CLAMPS TO MOUNT SPACER TO RAIL
2 PLACES



EXISTING RAILING FOR NET

ALUMINUM SPACER
31.75 O.D.

INSULATOR
25.4 DIA WITH CENTER HOLE
FOR 12 AWG ANT. WIRE

Drawing Name			
Drawing Number	Revision	Date Drawn	Page
Project/Customer		Approved By	
		System Engineering	Quality Engineering