

PARTICULARS

| | | | |
|-------------------|---|------|-------|
| LENGHT OVERALL | : | 83.0 | m |
| LENGHT B.P. | : | 75.0 | m |
| BREATH | : | 16.2 | m |
| DEPTH (MAIN DECK) | : | 7.90 | m |
| DESIGN DRAUGHT | : | 5.75 | m |
| LOAD DRAUGHT | : | 6.08 | m |
| | | 6.11 | m |
| | | | MLD. |
| | | | EXTR. |

| | | |
|------------------|---|---------|
| OFFICIAL NUMBER | : | 808715 |
| GROSS TONNAGE | : | 3853.56 |
| NET TONNAGE | : | 1528.46 |
| CALL SIGN | : | CGAH |
| PORT OF REGISTRY | : | OTTAWA |

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED

HOLD CAPACITIES

| COMPARTMENT | FRAMES | GRAIN CAPACITY | BALE CAPACITY | LOG FROM | |
|-------------|---------|----------------|---------------|------------|----------|
| | | | | ABOVE BASE | STN 5 |
| UPPER HOLD | 128-152 | 566.4 | 546.5 | 6,600 | 18,099 F |
| LOWER HOLD | 128-152 | 491.0 | 483.8 | 3,247 | 17,777 F |
| TOTAL | | 1057.4 | 1010.3 | 5,043 | 17,950 F |
| INCL. HATCH | | | | | |

FUEL OIL CAPACITIES

[illegible]

FLUME TANK CAPACITIES

| COMPARTMENT | FRAMES | 100% CAPACITY | 98% OR OVERFLOW CAPACITY | WORKING CAPACITY | CG FROM FIRE SURFACE | | |
|------------------|---------|----------------|--------------------------|------------------|----------------------|--------|----------|
| | | | | | BASE | ABOVE | STN 5 |
| | | m ³ | t | kg | meters | m | ft |
| UPPER FLUME TANK | 117-126 | 111.7 | 79.1 | 49.6 | 5.650 | 11.474 | F 771.19 |
| LOWER FLUME TANK | 117-126 | 113.0 | 84.1 | 43.8 | 2.325 | 11.923 | F 658.85 |
| TOTAL | | 224.7 | 173.2 | 93.4 | | | |

LUBE OIL CAPACITIES

| COMPARTMENT | | FRAMES | 100% CAPACITY | 98% ABOVE BASE | VOL. FROM STN 5 | LOG FROM STN 5 | FREE MOMENT |
|------------------------|--|--------|---------------|----------------|-----------------|----------------|-------------|
| | | | πr^2 | $\frac{1}{2}$ | meters | m | |
| MAY GEN. LUBE OIL TANK | | 58-63 | 16.6 | 7.6 | 6.276 | 13.200 | 4.777 |
| JUN GEN. LUBE OIL TANK | | 59-64 | 17.0 | 7.8 | 6.390 | 13.400 | 4.855 |
| DIRTY LUBE OIL TANK | | 54-58 | 9.9 | 7.3 | 6.290 | 15.250 | 1.552 |
| TOTAL LUB. OIL | | | 29.7 | 22.6 | | | |

WATER BALLAST CAPACITIES

| COMPARTMENT | FRAMES | 100% CAPACITY | FRESH WATER | SALT WATER | VOLUME ABOVE BASE | LOG FROM SURFACE | FREE SURFACE | MOMENT | UNIT SW | |
|-----------------------|-------------|---------------|-------------|------------|-------------------|------------------|--------------|--------|---------|--------|
| | | | | | | | | | meters | meters |
| FORE PEAK TANK | 175" - STEM | 84.0 | 84.0 | 86.1 | 7.057 | 35.033 | F 130.48 | | | |
| NO. 1. W.B. WING TANK | 163" - 75" | 41.3 | 41.3 | 42.3 | 5.556 | 29.943 | F 161.18 | | | |
| NO. 2. W.B. WING TANK | 152" - 163" | 55.1 | 54.0 | 55.3 | 4.403 | 25.413 | F 18.50 | | | |
| NO. 3. W.B. WING TANK | 152" - 163" | 55.1 | 54.0 | 55.3 | 4.403 | 25.413 | F 18.50 | | | |
| NO. 4. W.B. WING TANK | 152" - 163" | 55.1 | 54.0 | 55.3 | 4.403 | 25.413 | F 18.50 | | | |
| NO. 1. D.B. W.B. TANK | 126" - 152" | 50.8 | 50.8 | 52.1 | 0.882 | 17.801 | F 122.23 | | | |
| NO. 2. D.B. W.B. TANK | 54" - 70" | 43.5 | 43.5 | 44.6 | 0.872 | 12.541 | A 12.93 | | | |
| NO. 3. D.B. W.B. TANK | 54" - 70" | 59.5 | 59.5 | 61.0 | 0.839 | 12.884 | A 267.38 | | | |
| NO. 4. D.B. W.B. TANK | 54" - 70" | 59.5 | 59.5 | 61.0 | 0.839 | 12.884 | A 267.38 | | | |
| TOTAL WATER BALLAST | 1-15 | 111.4 | 590.6 | 608.4 | 35.554 | 204.00 | F 174.00 | | | |

FRESH WATER CAPACITIES

| COMPARTMENT | FRAMES | 100% CAPACITY | OVERFLOW LOC FROM FREE SURFACE MOMENT | YCG LOC FROM ABOVE BASE | FREE SURFACE MOMENT |
|-----------------------|--------|------------------|---|-------------------------------|---------------------------|
| | | m ³ | ↑ | meters | m ³ |
| FRESH WATER TANK PORT | 30-41 | 50.1 | 50.1 | 1.8 | 22.40 |
| FRESH WATER TANK STBD | 30-41 | 50.1 | 50.1 | 1.8 | 22.40 |
| BOILER FEED TANK PORT | 70-75 | 14.9 | 14.9 | 6.316 | 8.600 A |
| TOTAL FRESH WATER | | | | 6.316 | 8.600 A |
| | | | | | 3.12 |

MISCELLANEOUS TANKS

| COMPARTMENT | FRAMES | 100% CAPACITY | SPECIFIC GRAVITY | 98% CAPACITY | VOC LOG FROM ABOVE BASE | FREE SURFACE STN 5 | SURFACE MOMENT | HEIGHT | |
|----------------------|--------|---------------|------------------|--------------|-------------------------|--------------------|----------------|--------|--------|
| | | | | | | | | feet | meters |
| AMMONIUM FLUE TANK | 2-12 | 20.8 | 0.70 | 17.7 | 0.55 | 12.56 | 30.5 | 30.5 | 30.5 |
| WASTE OIL TANK PORT | 3-17 | 4.9 | 0.85 | 4.1 | 1.915 | 23.665 | 3.12 | 3.12 | 3.12 |
| ONLY BULGE TANK STD. | 3-17 | 4.9 | 0.85 | 4.1 | 1.915 | 23.665 | 3.12 | 3.12 | 3.12 |
| PURIFIER SLUDGE TANK | 50-64 | 2.5 | 0.85 | 2.0 | 1.792 | 13.357 | 1.29 | 1.29 | 1.29 |

EXPANSION SYSTEM AND OBSERVATION TANKS

[illegible]

VOID COMPARTMENTS

| COMPARTMENT | | FRAMES | 100% CAPACITY | VOZ LOG STN 5 | VOZ LOG STN 5 | FREE SURFACE MOMENT | FREE SURFACE MOMENT |
|-------------|--------------|---------|------------------|---------------------|---------------------|---------------------------|---------------------------|
| | | | | BASE | BASE | Ln SW | Ln SW |
| | | | m ² | meters | meters | | |
| NO. 1 | V.OID P OR S | 171-126 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 2 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 3 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 4 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 5 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 6 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 7 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 8 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 9 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 10 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 11 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 12 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 13 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 14 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 15 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 16 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 17 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 18 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 19 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 20 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 21 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 22 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 23 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 24 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 25 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 26 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 27 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 28 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 29 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 30 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 31 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 32 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 33 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 34 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 35 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 36 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 37 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 38 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 39 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 40 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 41 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 42 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 43 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 44 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 45 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 46 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 47 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 48 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 49 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 50 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 51 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 52 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 53 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 54 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 55 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 56 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 57 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 58 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 59 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 60 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 61 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 62 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 63 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 64 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 65 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 66 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 67 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 68 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 69 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 70 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 71 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 72 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 73 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 74 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 75 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 76 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 77 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 78 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 79 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 80 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 81 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 82 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 83 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 84 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 85 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 86 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 87 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 88 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 89 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 90 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 91 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 92 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 93 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 94 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 95 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 96 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 97 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 98 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 99 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |
| NO. 100 | V.OID P OR S | 109-166 | 50.1 | 3.969 | 11.081F | 1.44 | |

[illegible]

CAPACITY PLAN

| THICKNESS: | MIDSHIP | 25mm | AFT | 20mm | FOR'D | 30mm |
|------------|---------|------|-----|------|-------|------|
| | | | | | | |

PROJECT TYPE 1100 ICEBREAKER

