

**ALASKA REGION RESEARCH VESSEL
CONCEPT DESIGN REPORT**

ABBREVIATIONS AND ACRONYMS

(Abbreviations for units on page v)

ABL	above baseline
ABS	American Bureau of Shipping
AC	alternating current
ARV	Arctic Research Vessel
BL	baseline
CASPPR	Canadian Arctic Shipping Pollution Prevention Regulations
CL	centerline
DC	direct current
DNV	Det Norske Veritas
DWL	design waterline
EOS	Engineers Operating Station
FIC	Fleet Improvement Committee
FP	forward perpendicular
FR	frame
GM & Gmt	metacentric height
Ht.	height
HVAC	heating, ventilation and air conditioning
ICES	International Council for the Exploration of the Sea
ISO	International Standards Organization
KG	vertical center of gravity above baseline
KML	longitudinal metacentric height, from baseline
KMT	transverse metacentric height, from baseline
lav.	lavatory
LCB	longitudinal center of buoyancy
LCF	longitudinal center of flotation
LCG	longitudinal center of gravity
Long'l	longitudinal
Lpp	length between perpendiculars

maint.	maintenance
MIZ	Marginal Ice Zone
NSF	National Science Foundation
NSMB	Netherlands Ship Model Basin
prop.	propeller
Rev.	revision
S.S.	sea state
Sht.	sheet(s)
SMP	Ship Motion Prediction Program
SMR	Science Mission Requirements
SNAME	The Society of Naval Architects and Marine Engineers
SOLAS	Safety of Life at Sea
S.W.	salt water
TGA	The Glosten Associates
UAF	University of Alaska at Fairbanks
UNOLS	University-National Oceanographic Laboratory System
VAC	volts, AC
VCB	vertical center of buoyancy
VCG	vertical center of gravity
WL	waterline

UNITS

Bhp	brake horsepower
g	gravity
gpd	gallons per day
GPM	gallons per minute
kg	kilogram(s)
kHz	kilohertz
kPa	kilo-Pascals
ksi	kips per square inch
kW	kilowatt
L	liter(s)
lb	pound(s)
LTSW	long tons, salt water
LT	long tons
m	meter(s)
M	million(s)
min	minute
mm	millimeter(s)
psi	pounds per square inch
RPM	revolutions per minute
scfm	specific cubic feet per minute
sec	second(s)
SHp	shaft horsepower