



Ice Management in Chukchi Sea 2012 - 2015 msv Fennica

Arctia fleet



OTSO / KONTIO
98.6 • 24.2 • 8.0 • 15,000 kW



URHO / SISU
106.6 • 23.8 • 8.3 • 16,200 kW



VOIMA
83.5 • 19.4 • 7.0 • 10,200 kW



FENNICA / NORDICA
116.0 • 26.0 • 8.4 • 15,000 kW



POLARIS
Delivered 2016



AHTO
40 • 12.8 • 5.5 43 T BP

Operations



Alaska 2007, 2012, 2013 and 2015

- Ice Management, ROV, Subsea support, 2D seismic
- MSV Fennica
- MSV Nordica



West Greenland 2010

- Ice Management
- MSV Fennica
- MSV Nordica



North East Greenland 2011, 2014 and 2015

- Ice Management
- MSV Fennica
- IB Otso



Baltic Icebreaking

TASKS FOR MSV FENNICA CHUKCHI SEA 2012 - 2015

- Primary Ice Management vessel
- Capping Stack
- Crew change vessel
- ROV support
- Installation and recovery of various buoys.



Ice monitoring

- “Ice Nav” monitoring system. Modis and Radarsat images
- Ice radar Selesmar Selux ST
- Extensive onshore organization predicting ice movement.
- 2 experienced Canadian ice advisors onboard.

ALERT LEVEL	TIME CALCULATION	STATUS
Green	Alert Time is greater than 24 hours	Normal operations
Blue	Alert Time is greater than 12 hours Less than 24 hours	Initiate risk assessment Validate secure times (ST) & move time (MT)
Yellow	Alert Time is greater than 6 hours Less than 12 hours	Limited well operations in line with COCP, Commence securing well
Red	Alert Time is less than 6 hours	Well securing operations completed. Commence anchor recovery operations.
Black	Drillsite evacuated	Move drilling unit to a safe location

THANK YOU