

PMI IMACS

INTEGRATED **M**ACHINERY, **A**LARM and **C**ONTROL **S**YSTEM

Omni Chief Distributed Control and Monitoring Unit

Direct Communication Link to Caterpillar Engines

UDC Summary Alarm Panel

MPC-D Marine Propulsion Control System

Navigation Light Panel

Digital Tachometers

Tank Level Monitor

Shaft Brakes



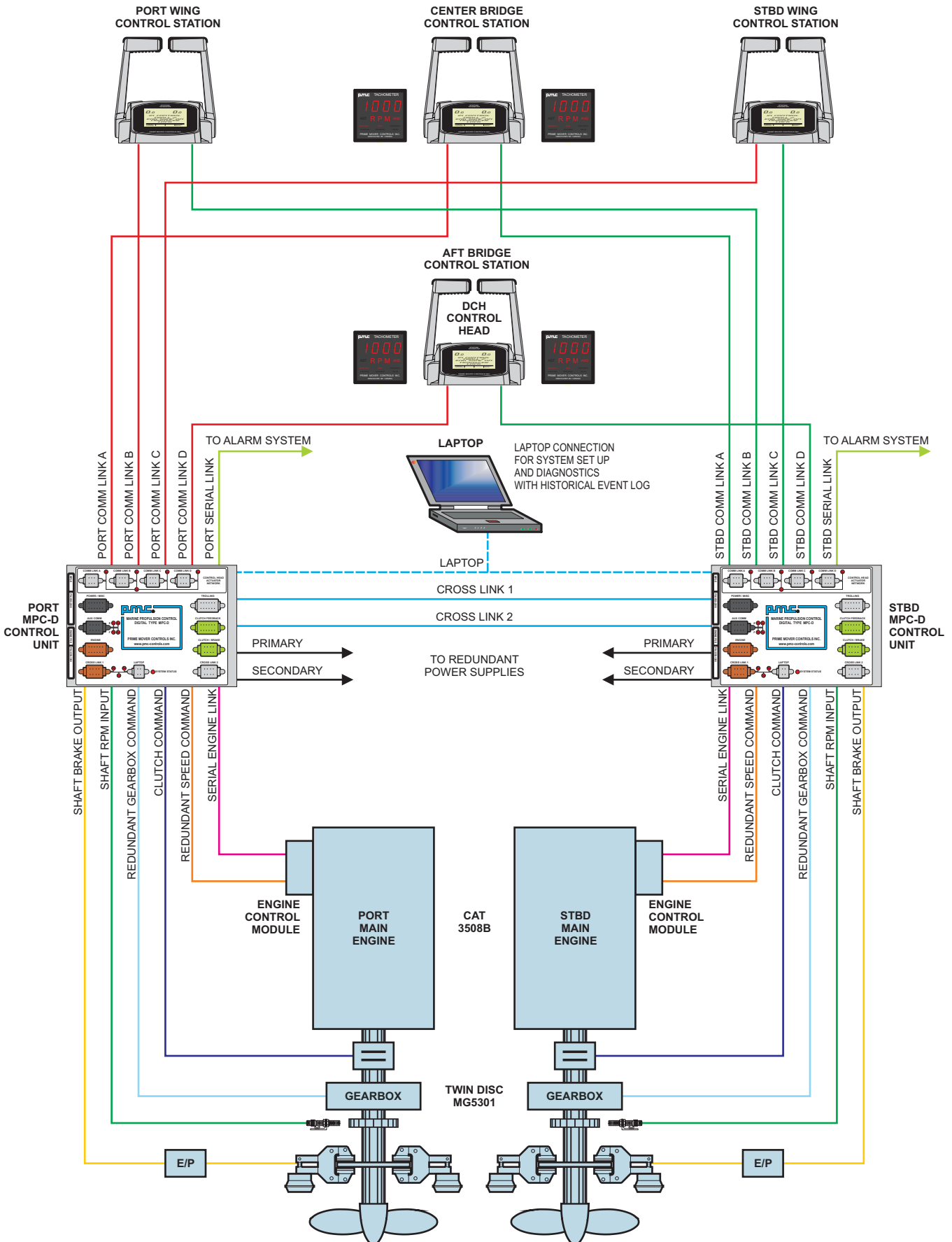
MV Lituya

55.2 m RO/RO Ferry

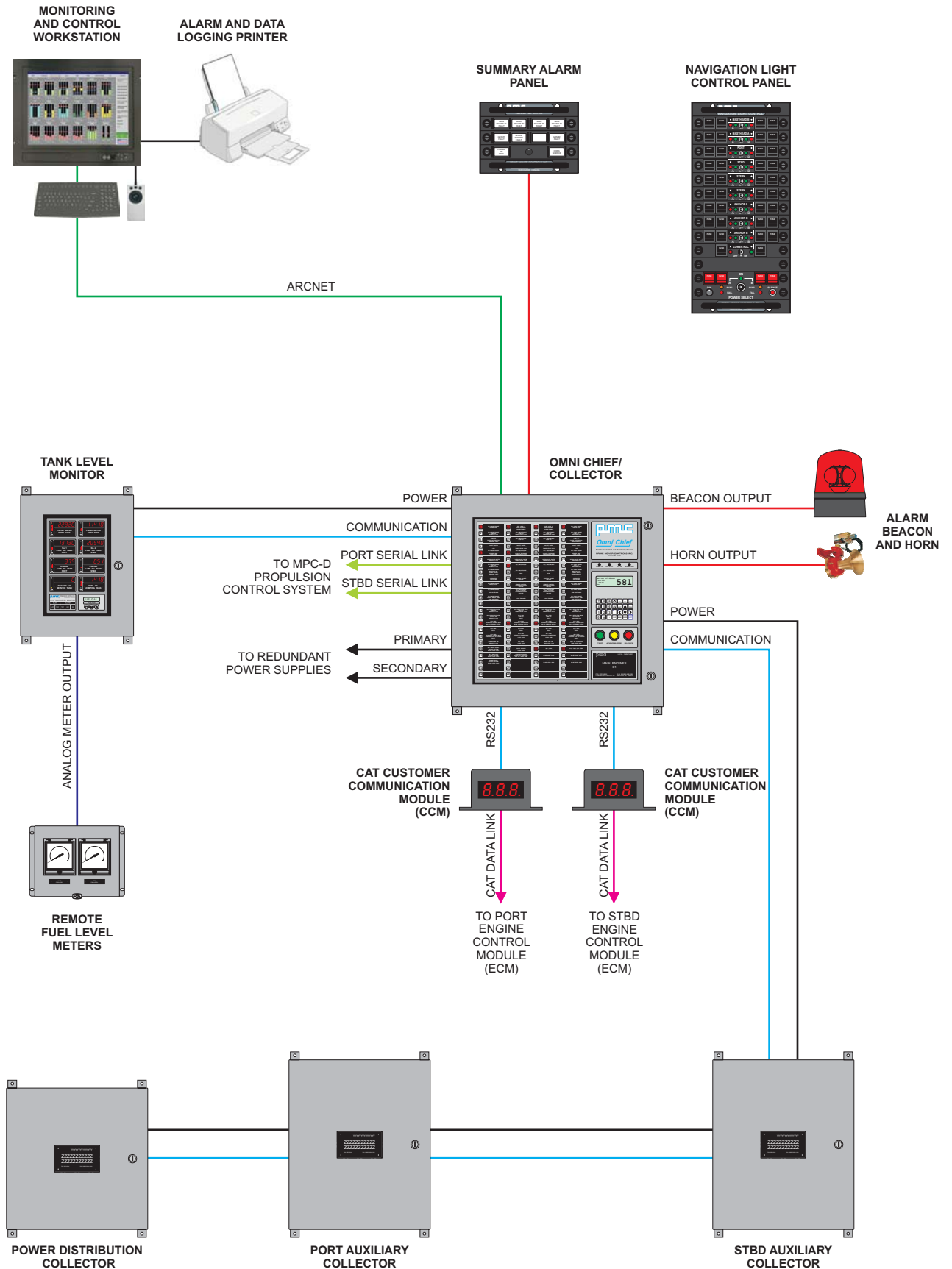
Alaska Marine Highway System

PRIME MOVER CONTROLS INC.

SIMPLIFIED CONTROL SYSTEM BLOCK DIAGRAM



SIMPLIFIED ALARM AND MONITORING SYSTEM BLOCK DIAGRAM



RELATED PRODUCT BULLETINS

IMACS Integrated Machinery Alarm and Control System

IMACS
Integrated Machinery Alarm and Control System

HARDWARE
Designed with marine approvals Commercial desktop or industrial rackmount PC enclosures
Diminutive for bridge applications

SOFTWARE
High resolution graphics Electronic chart system Control interfaces Active and historical alarms Archiving alarms, status points and configuration changes Password protection of configuration changes Advanced integration strategies

OPTIONS
Fiber optic network Standalone rackmount high speed network Touch screen/LCD monitor Gateway for interfacing to virtually any other communications protocol Daylight screens

PRIME MOVER CONTROLS INC.
SB 8003-2000A

SB 8003-2000A

Series 8003-1000 Omni Chief

Series 8003-1000
Distributed Control and Monitoring System

The Omni Chief is a flexible system with many configurations. The basic unit can function as a stand alone alarm annunciator, or as a complete engine control system. It is designed for maximum integration with the engine room. The system provides reliable hardware and software for most engine applications. Requirements such as graphics, automation, safety systems, environmental control, etc. are available as options.

FEATURES
Key controller of engine and digital input relay interconnect system applications
Omni Chief engine room based virtual points based on calculations and logic
Engine room based graphic LCD for additional information and control
High speed network connection for additional computer graphics, control and monitoring
Menu driven programming able to prevent critical and stored in non-volatile memory
On board converter for universal remote memory
Manual entry for communication, CPU power and system status
World wide available through international ports
Data is built into a hard copy for reporting modules

PRIME MOVER CONTROLS INC.
SB 8003-1000A

SB 8003-1000A

Series 8550-2000 Marine Propulsion Controls

Series 8550-2000 MPC-D SYSTEM
TYPE MPC-D DIGITAL SYSTEM FOR VESSELS WITH FIXED PITCH PROPELLERS

FEATURES
Maximum performance without compromise
Aesthetic design
Versatile communication
Electronic engine and Electronic gearbox IMA
Electronic trimline valve link
Actuator trimline
Gear shift and throttle sequencing
Synchronizing safety interlocks
Station transfer
Multi-channel display and from at each station
Robust engine and gearbox control
Robust control lever
Position sensing
Redundant power
Redundant communication
Robust components mounted internally
Weight components and connectors
Serial communication
Factory pre-wired cables
Simple keypad or computer setup
Self diagnostics
Historical event logging

PRIME MOVER CONTROLS INC.
SSB 001-8550-2000

SSB 001-8550-2000

Type 8110 Tank Level Monitor

Type 8110
TANK LEVEL MONITOR

FEATURES
Monitors volume or level of eight tanks simultaneously
Large six digit LED display for tank level
Star graph displays percent of full
Backup LCD shows unit of measure: Liters, Cubic Meters, US & Imperial Gallons, Feet, Meters, etc.
Up to six alarms per tank including: low, high level, low flow rate, high flow rate and transducer fault
Adjustable slow and fast bleed off rates
Individual draft can be configured
Easy programming with front LCD or external computer
Manual entry or automated calibration of tank shape
Individual outputs for remote alarm or pump control
Easy connection to PMC repeaters and alarm products via RS-485 communication
Uses standard 4-20 mA signal
PEP splash proof, flush marine approved

PRIME MOVER CONTROLS INC.
SB 8110B

SB 8110B

PRIME MOVER CONTROLS INC.

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