AVECS Bergen GmbH

FILE

Company of the AVECS Corporation AG

EON VDR

AVECS Bergen GmbH, Billrothstr. 11 A, 18528 Bergen, Germany

25.04.2005

CONFIRMATION

To whom it may concern:

This letter is to certify that Mr. Jim Burshtynski, a software engineer of company CMC-electronics is a representative of our company AVECS Bergen GmbH (Germany).

Hereby we confirm that Mr. Jim Burshtynski is authorized to do following things on behalf of AVECS Bergen GmbH:

- check of VDR-system on vessel "Empress of the North"
- check of VDR-system on vessel "Fairweather"

Your sincerely

Gerald Rynkowski

[redacted]

Managing Director
AVECS Bergen GmbH

MER
Marine Event Recorder®

Patent Nr
DE 196 15 905 C1
EP 0 814 435 B1

QUALITY MANAGEMENT SYSTEMS GLC

AVECS Quality System
Certified according to
DIN EN ISO 9001:2000
Cert. No. QS-376HB

Managing Director
Dipl.-Ing. Gerald Rynkowski
Prokurist
Dipl.-Ing. Detlef Prußdorf

Commercial register
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St.-Nr. 047/100/90218

Bank account
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AVECs Bergen GmbH

Company of the AVECS Corporation AG

CERTIFICATE OF COMPLIANCE

Annual performance test of Voyage Data Recorder (VDR), according IMO-Resolution A.861(20), IEC 61996

Annual performance test of: Marine Event Recorder (MER)

Ship: EMPRESS OF THE NORTH

IMO-No:

Results: Visual-, mechanical-, electrical- and software-check of VDR, done in accordance with instructions of IMO.
(for details see attached checklist)

Remarks: RECHECKED AFTER ORIGINAL ANNUAL INSPECTION WITH NOTATION NOW GE SIGNAL TO VDR O.K. VDR ALL O.K.

Last check:	Check:	Next check:
Date: MARCH 2005	Date: MAY 11 2005	Date: MARCH 2006

Signature Vendor: [redacted]

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Fax: +49 33206 208-20
E-mail: info@avecs-bergen.de

Signature (received) Ship/Owner: [redacted]

Marine Event Recorder®

Patent Nr
DE 196 15 905 C1
EP 0 814 435 B1

Managing director:
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Prokurist
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AVECS Bergen GmbH

Company of the AVECS Corporation AG

Service Report

AVECS Service Report Number

Vessel: EMPRESS OF THE North
Hull No:
IMO-No:
Equipment: VDR
Serial No: 0033/142/0802
Berth / Port: LEWISTON
Country: USA
Customer:
Order No:
Name of service technician: R. HOFFMANN

Service Reason: Yearly check of MER-VDR

Journey by: Car:___ Flight:___ From:

Date:	Traveling Times: From	To	Hours	Working Times: From	To	Hours	Distance: Km
30.3.2005				10:00	13:40		

Material delivered and installed:

Quantity:	Serial No:	Description:

Work done:
- check of whole system, cleaning filter-water,
- everything ok. except serial connection from GE-system - no output from GE-system to VDR to measure
- VDR itself is running well

REPAIRED MAY 11, 2005
JIM BURSHTYNSKY CMC ELECTRONICS
[redacted]

The checked equipment is working properly after the service : ~~YES~~/ NO

Date and Place: LEWISTON 30.3.2005

Technician: [redacted]

Customer: [redacted]

cmc electronics

600, BOULEVARD DR FREDERIK PHILIPS, VILLE ST-LAURENT (QUÉBEC) CANADA H4M 2S9
NAVCOMM

NOM DU CLIENT/CUSTOMER'S NAME

SSP	FEUILLE DE TRAVAIL SERVICE WORK ORDER	DATE JO M AY	N° DE COMPTE DU CLIENT CUSTOMER ACCOUNT NO
A	132970		

NOM DU BATEAU/ENDROIT/VÉHICULE INDICATIF D'APPEL SHIP'S NAME SITE VEHICLE CALL SIGN: EMPRESS OF THE NORTH

N° ORDER/N° DE CONTRAT SALES ORDER/CONTRACT NO	MAT TECHNICIEN TECHNICIAN D#	TRAVAIL WORK	RÉGION DU SERVICE SERVICE AREA

TAXE SUR VENTES/FED SALES TAX APPLICABLE ☐ — N° DE LICENCE/CERT D'EXEMPT LICENSE NO/EXEMPTION CERT

TAXE SUR VENTES/PROV SALES TAX APPLICABLE ☐ — N° DE LICENCE/CERT D'EXEMPT LICENSE NO/EXEMPTION CERT

HST APPLICABLE ☐ — N° DE LICENCE/CERT D'EXEMPT LICENSE NO/EXEMPTION CERT

DES FRAIS D'ADMINISTRATION DE 1 1/2% PAR MOIS (18% PAR ANNEE) SONT DEBITES AUX COMPTES ECHUS
SERVICE CHARGE IS MADE ON OVERDUE ACCOUNTS AT 1 1/2% PER MONTH (18% PER ANNUM)

INSTRUCTIONS

TRAVAIL EXECUTE/WORK PERFORMED

TRAVEL TO CLARKSTON WA.
ATTEND VESSEL RE: VDR SYSTEM
CHECK FOR MISSING GE SIGNAL AT
VDR - FOUND STILL NO GOOD
TRACED BACK THRU SYSTEM AND
FOUND DEFECTIVE RS 232 TO NMEA
CONVERTOR FROM THE GE PCM311
REMOVED & REPLACED TESTED NOW
O.K TO VDR
NO DEFICIENCIES WITH VDR
AND IS FULLY COMPLIANT WITH
ANNUAL PERFORMANCE TEST OF MER
NEXT CHECK DUE MARCH 2006.
JIM BURSHTYNSKI

PIÈCES ET MATÉRIAUX UTILISÉS PARTS & MATERIALS USED	QTÉ QTY	PRIX À L'UNITÉ UNIT PRICE	MONTANT AMOUNT

	JO M AY		JO M AY	
TRAVAIL COMMENCÉ LE DATE WORK STARTED		TRAVAIL TERMINÉ DATE WORK FINISHED	11 5 05	FICHE D'INSTALLATION INSTALLATION RECORD
TYPE D'ÉQUIPEMENT EQUIPMENT TYPE: VDR		N° DU MODÈLE/MODEL NO: AVECS		FICHE D'EMPLACEMENT LOCATION RECORD
LIEU DES TRAVAUX/WORK SITE: CLARKSTON WA.		N° DE SÉRIE/SERIAL NO: 0033/[illegible]		DRAPEAU/FLAG
[redacted]		AUTORISATION DE/AUTHORIZED BY	[redacted]	

FACTURATION LOCALE / LOCAL BILLING

TOTAL DES PIÈCES ET MATÉRIAUX UTILISÉS / TOTAL PARTS & MATERIALS USED	$
TOTAL DE LA MAIN D'OEUVRE / TOTAL LABOUR	$
DÉPENSES GLOBALES / TOTAL EXPENSES	$
R100587670 TPS/GST	$
TAXE SUR VENTES PROVINCIALE / PROVINCIAL SALES TAX 1000057408 TVQ/QST — N° DE COMPTE DE TAXE/TAX ACCOUNT 2 1 0 1 0	$
MONTANT GLOBAL DÛ / TOTAL AMOUNT DUE	$

CUSTOMER COPY

FILE
EON VDR

AVECS Bergen GmbH

Company of the AVECS Corporation AG

Service Report

AVECS Service Report Number:

Vessel:	Empress of the North	Hull - No.:	IMO - No.: —
Owner:		Shipyard:	
Equipment / Type:	MER	Serial - No.:	
Berth / Port:	Juneau / Ak	Country:	USA
Name of service technician:	Ulf Hager		
Service Reason:	☐ Commissioning ☐ Annual performance test ☒ Claim Claim No: ACD Display: Description: Microphone check VDR - check		

Journey by:	☐ Car No. - plate: PM-AV		☒ Flight	From: Cordova	
Date dd-mm-yy	Traveling Times (hh:mm)			Working Times (hh:mm)			Distance (one-way)
	From	To	Hours	From	To	Hours	km
19.05.2006				14:00	18:00	4	

Material delivered and installed:

Quantity	Description	Typ	Serial - No. Old	Serial - No. New

Work done:

Checked VDR System
Checked mics
Softwareupdate 3.625

AWSC EMPRESS OF THE NORTH

The checked equipment is working properly after the service : Yes ~~No~~

	AVECS Bergen certified representative	Vessel's representative
Company	AVECS-Bergen	
Name	Ulf Hager	
Place / Date	Juneau 19.05.2006	[redacted]
Signature (Stamp)	[redacted]	[redacted] AWSC EMPRESS

Revision: 1.2 (20.01.2006)

AVECS Bergen GmbH

FILE EON VDR

Company of the AVECS Corporation AG

AVECS Bergen GmbH, Billrothstr. 11 A, 18528 Bergen, Germany

SERVICE Report

Ship: Empress of the North

City: Portland (Oregon) Date: 12 and 13 Dec. 2003

Reason: Check of vdr-system, connection of needed equipment, to finish installation

Time (from – to): 12.12.03 ~~10~~ 10.00 – 20.00 13.12.03 8.00 – 10.00

Works on bord:
- check and connection of GE-ship automation system
- check of all signals
- GPS bridge center console connected → o.k.

Remarks:
- serial connection to Wind-indicator is ok., but indicator delivers wrong telegram to vdr (Raymarine ST60)
- see backside this page

R. Hoffmann

AVECS Bergen GmbH

Company

[redacted]

RELIEFMASTER

EON

Marine Event Recorder®

Patent Nr:
DE 196 15 905 C1
EP 0 814 435 B1

Managing director:
Captain, Dipl.-Naut.
Hans-W. Schleiter;
Dipl.-Ing. Gerald Rynkowski

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Remark to page 1:

- from Wind indicator is sending via serial interface RS422 a telegram - $ IIBWC,,,,,,,T,,,M,,N,*CS it is not for Windspeed and direction according IEC norm, and not filled,
- the correct one would be $ WMV

AVECS Bergen GmbH

Company of the AVECS Corporation AG

CERTIFICATE

OF COMPLIANCE with SOLAS V18.8

Annual performance test of Voyage Data Recorder (VDR), according IMO-Resolution A.861(20), IEC 61996

Vessel's Details			
Vessel's Name	Empress of the North		
Owner	EN BOAT LLC		
IMO-No./ MMSI / Call sign	926 3538	366 902 410	WDB4791
Flag / Class	USA	ABS	
Voyage Data Recorder Details			
Manufacturer	AVECS Bergen GmbH		
VDR – Type	☒ MER ☐ MER-VDR ☐ MER-SVDR		
VDR - Serial - No.	0033 / 142 / 0802		
Software Version	3.62c		
FRM – Type	☐ VDR6260 ☒ L3-HVR		
FRM - Serial - No.	000175153		
Date of Installation	13/12/2003 (dd/mm/yyyy)		
Inspection Details			
Name of Company	AVECS-Bergen GmbH		
Name of Technician	U. Häger		
Place of Inspection	Portland, Oregon / USA		
Class Certificate No.	32543-06 HH valid until 2011-01-11		

Last inspection date:	Inspection date:	Next inspection date:
30.03.2006	17.02.2007	Date of Installation each year

Marine Event Recorder®

Patent Nr:
DE 196 15 905 C1
EP 0 814 435 B1

AVECS Quality System
Certified according to
DIN EN ISO 9001:2000
Cert. No. QS-776HH

Managing Director:
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Prokurist:
Dipl.-Ing. Detlef Prößdorf

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info@avecs-bergen.de

1. Visual / Mechanical / Physical Check of Equipment		Check
Sub Unit	**Test Description**	
Main Unit	Condition of Main Unit	OK
	Foundation of Main Unit	OK
	Earthing Connections	OK
UPS Unit	Condition of UPS Unit	OK
	Last replacement date of batteries: 03/2006	OK
PLC's & DCU's	Condition of PLC's & DCU's	OK
Microphones	Condition of Microphones	OK
VDR Alarm Panel	Condition of VDR Alarm Panel	OK
Final Recording Medium (FRM)	Condition of FRM	OK
	Expire date of beacon: May 2008	OK
2. Electrical Check of Equipment		**Check**
Power 230 VAC		OK
Power 24 VDC		OK
Ethernet connections		OK
Digital Signals		OK
Analogue signals		OK
Serial signals		OK
Audio signals		OK
UPS		OK
Microphones	Microphone test passed	OK
Emergency Backup	EM Backup released	OK
VDR failure output to bridge panel	Alarm is activated (optical & acoustical)	OK

3. Interfaces: Operations and Recording			Check
Interface	**Remarks**	**Signal Type**	
Date and Time		NMEA	OK
Position		NMEA	OK
Speed		NMEA	OK
Heading		NMEA	OK
Bridge Audio	4 indoor microphones 2 outdoor microphones	AF AF	OK
Communications Audio	VHF	AF	OK
Radar Video Data	Main Radar Tick where applicable	☒ RGB-HV / Mono ☐	OK
AIS	Mandatory if no Radar	NMEA	n.a.
In case of MER-SVDR are this data only necessary if available as NMEA			
Water Depth		NMEA	OK
Mandatory Alarms	Tick where applicable	☒ NMEA / digital ☐	not OK
Rudder Order & Response	Tick where applicable	☐ NMEA / ana/digi ☒	OK
Engine Order & Response	Tick where applicable	☒ NMEA / ana/digi ☐	not OK
Hull Openings Status	Tick where applicable	☐ NMEA / digital ☐	n.a.
Watertight & Fire Door Status	Tick where applicable	☐ NMEA / digital ☒	OK
Acceleration & Hull Stresses	Tick where applicable	☐ NMEA / analogue ☐	n.a.
Wind Speed & Direction		NMEA	OK
Other Optional Sensors			
1)			
2)			
3)			
4)			

4. Power Supply Check		Check
Alarm Check	After remove of electrical power source VDR alarm is activated	OK
Two Hours on Battery Check	VDR is in operation (audio recording) for 2 hours after removal of electrical power	OK
Shutdown Check	After 2 hours on battery the VDR stops operation	OK
5. Replay-System Software (if available)		**Check**
Software Function		OK
Replay-Version:	3.53	OK
6. Download + Replay of data from		**Check**
VDR hard disk		OK
Final Recording Medium		OK
Emergency Backup		OK
7. Keys on board		
Main unit keys on board available		OK
UPS unit keys on board available	Not MER	—
Shut down keys on board available		OK
8. Change or Repair		**Check**
Changed parts	(e.g. filter mates, batteries, fans, hard disks) - filter mates	OK
The VDR is working properly after the inspection	Exceptions under "Remarks" below	Yes

Remarks:
- mandatory alarms and engine order + respone can not be
- recorded, because there is no output from "GE" Automation
- system
-
-

	AVECS Bergen certified representative	Vessel's representative
Company	AVECS-Bergen GmbH	[redacted]
Name	U. Häger	
Place / Date	Portland, Oregon / USA	
Signature (Stamp)	[redacted]	

AVECS Bergen GmbH

Company of the AVECS Corporation AG

Service Report

AVECS Service Report Number	

Vessel:	Empress of the North	Hull - No.: 142	IMO - No.: 9263538
Owner:	EN BOAT LLC	Shipyard:	
Equipment / Type:	MER	Serial - No.:	0033/142/0802
Berth / Port:	Portland, Oregon	Country:	USA
Name of service technician:	U. Häger		
Service Reason:	☐ Commissioning ☐ Annual performance test ☐ Claim Claim No: ACD Display: Description:		

Journey by:	☐ Car No. - plate: PM-AV	☐ Flight	From:

Date dd-mm-yy	Traveling Times (hh:mm)			Working Times (hh:mm)			Distance (one-way)
	From	To	Hours	From	To	Hours	km
17.02.2007				07:00	18:00	10	
18.02.2007				06:00	12:00	6	

Material delivered and installed:

Quantity	Description	Typ	Serial - No. Old	Serial - No. New

Work done:

- checked all radar cables (3 had bad connection in extension plugs) + repaired it
- made new adjustment of frame grabbers, because a new radar has been installed
- checked microphones and audio recording ↳ no background noise anymore
  ↳ sporadic trouble on Input amplifier for mic 6 ⇒ will send new amplifier module for replacement
- search for old wind sensor cable; connected new wind sensor to vdr
- made firmware update to V. 362c
- installed replay system 3.53 on ship's laptop and gave instruction to crew
- filled out IMO - certificate for US Coast Guard

The checked equipment is working properly after the service : Yes

	AVECS Bergen certified representative	Vessel's representative
Company	AVECS-Bergen GmbH	
Name	U. Häger	
Place / Date	Portland, Oregon / 18.02.2007	12/18/07
Signature (Stamp)	[redacted]	[redacted]

AVECS Bergen GmbH

Company of the AVECS Corporation AG

Service Report

AVECS Service Report Number	

Vessel:	Empress of the World	Hull - No.: 142	IMO - No.: 9263538
Owner:	EN BOAT LLC	Shipyard:	
Equipment / Type:	MER	Serial - No.:	0033 / 142 / 0802
Berth / Port:	Portland, Oregon	Country:	USA
Name of service technician:	U. Häger		
Service Reason:	☐ Commissioning ☒ Annual performance test ☐ Claim Claim No: ACD Display: Description:		

Journey by:	☐ Car No. - plate: PM-AV	☒ Flight	From: Berlin (Ger)

Date dd-mm-yy	Traveling Times (hh:mm)			Working Times (hh:mm)			Distance (one-way)
	From	To	Hours	From	To	Hours	km
16.02.2007	04:00	14:00 (-9h)	19	14:00	20:00	5	

Material delivered and installed:

Quantity	Description	Typ	Serial - No. Old	Serial - No. New

Work done:

- carried out anual performance test
- checked beacon on FRM ↳ beacon battery is low. will send new beacon for self replacement (by crew);
- checked 12 hour recording. ↳ All data is available in accordance with IEC 61996

The checked equipment is working properly after the service : Yes

	AVECS Bergen certified representative	Vessel's representative
Company	AVECS-Bergen GmbH	
Name	U. Häger	
Place / Date	Portland, Oregon / 18.02.2007	12/15/07
Signature (Stamp)	[redacted]	[redacted]

AVECs Bergen GmbH

Company of the AVECS Corporation AG

Installation - Report

Ship: Empress of the North
NB-No: 142
Owner: EN BOAT LLC

IMO-No: 9263538
Call: WDB4791
MMSI: 366902410

Installation - date: 13.12.2003
Place:

Ser-No: MER: 0331 142 / 0802
Type: MER
FRM: 000 175 153
Type: L3 HVR
Beacon: DT 3725
Batt.-exch: May 2008
Alarm Code Display:
Router: n.a.
(ISDN:)

IP-Adr.:
MER: 192.168.95.205
FRM: 192.168.95.231
PLC1: 192.168.95.190
PLC2: n.a.
PLC3: n.a.
Replay: 192.168.95.222
(Spare:)

Subnet mask: 255.255.255.0
Gateway: 192.168.95.1

Replay-system - Hardware installation:

Caps-string:
Replay-system-Lic: 45D5-84VS-A5DW-DWC9-ZHFG
Software version: 3.53
(Dongle-No:) P02622
Reg.key: 78C8-CØE4-1F5B-F4E5-5A7C
HW-ID: 9827-17F6-EØ5C-B3ØC-5A7C-A

Remarks:

installed replay system on ship's notebook, checked functionality and gave instructions to the crew.

Technician: [redacted]

received: [redacted]

INTERNATIONAL MARITIME ORGANIZATION
4 ALBERT EMBANKMENT
LONDON SE1 7SR

Telephone: 020 7735 7611
Fax: 020 7587 3210

IMO

E

Ref. T4/8.01

MSC.1/Circ.1222
11 December 2006

GUIDELINES ON ANNUAL TESTING OF VOYAGE DATA RECORDERS (VDR) AND SIMPLIFIED VOYAGE DATA RECORDERS (S-VDR)

1 The Maritime Safety Committee at its seventy-third session (27 November to 6 December 2000) approved the revision of SOLAS regulation V/20 which included the requirement for voyage data recorder (VDR) systems to be the subject of an annual performance test.

2 At its seventy-ninth session (1 to 10 December 2004), the Maritime Safety Committee adopted amendments to regulation V/20 to include the requirement for VDRs which may be simplified voyage data recorders (S-VDR), to be fitted on existing cargo ships on a phased-in carriage requirement. Such VDRs were also to be the subject of an annual performance test.

3 The Maritime Safety Committee, at its eighty-second session (29 November to 8 December 2006), approved the Guidelines on annual testing of Voyage Data Recorders (VDR) and simplified Voyage Data Recorders (S-VDR), as set out in the annex.

4 The purpose of an annual performance test is to determine that a VDR/S-VDR is operational as defined in the manufacturer's specification. In addition, because of the "black box" nature of this equipment, there is a need to have a document which clearly lists all the interfaces which have been checked to confirm compliance with the appropriate International Electrotechnical Commission (IEC) test standards. This transparency is essential for surveyors or inspectors of flag Administrations port States or recognized organizations.

5 To assist in achieving this aim, it is recommended that all VDR and S-VDR be subject to a standard method of testing as detailed in the annexed Guidelines.

6 Member Governments are invited to bring these Guidelines to the attention of shipping companies, shipowners, ship operators, equipment manufacturers, recognized organizations, shipmasters and all parties concerned.

***

ANNEX

GUIDELINES ON ANNUAL TESTING OF VDR AND S-VDR

1 The annual testing of VDR/S-VDR required by SOLAS regulation V/20 should be carried out by the manufacturer or a person authorized by the manufacturer.

2 The examination of the VDR/S-VDR installation should include:

.1 confirmation that no alarms are present prior to commencement of the test;

.2 confirmation that when the external power is removed the power supply alarm is activated, the equipment continues to operate for at least 1 h 55 min and automatically stops recording no later than 2 h 5 min after the external power is removed;

.3 confirmation that the acoustic beacon is functional using the appropriate manufacturer's test equipment or by the substitution of a certified fully operational unit;

.4 confirmation that the overall condition of the equipment is satisfactory and that any batteries within the equipment (acoustic beacon and power supply) are in date;

.5 confirmation that accurate maintenance records of the VDR are available;

.6 confirmation that the items to be recorded, specifically those data items available and required to be recorded at the time of original commissioning as defined in resolution A.861(20) and resolution MSC.163(78) for VDR and S-VDR, respectively, are satisfactorily stored for the duration of the 12-hour recording period;

.7 confirmation that the capsule float-free arrangements, where required or fitted, are satisfactory as originally accepted at commissioning; and that any battery, release mechanism or other datable items are within their expiry date; and,

.8 confirmation that the equipment is restored to normal operation mode following completion of the tests.

3 The manufacturer must complete a review, record any changes and issue the completed test report within 45 days. To accommodate performance checks to align with the appropriate survey under the Harmonized System of Survey and Certification (HSSC), the annual performance check may be carried out up to 3 months before the due date for a passenger ship and -/+ 3 months of the due date for a cargo ship. (The maximum period between subsequent checks is, therefore, 15 months for passenger ships and 18 months for cargo ships, unless either certificate has been extended as permitted by SOLAS regulation I/14, in which case a similar extension may be granted.)

4 The annual test should be recorded in the form of the model test report given in the appendix to this document. If the language used is neither English nor French nor Spanish, the text should include a translation into one of these languages.

APPENDIX

VOYAGE DATA RECORDER PERFORMANCE TEST REPORT

Note – Insert **Yes** for success, **No** for failure or **N/A** for non fitted interfaces in these boxes, as appropriate.

	Yes	No	N/A

Ship's details

Ship's name	Empress of the North
Flag	USA
IMO number	9263538
Date keel laid	
Gross tonnage	

Voyage data recorder details

Manufacturer	AVECS Bergen GmbH
Model	MER
System serial number	0033/142/0802
Software version number	3.62c
Date fitted	13.12.2003

Inspection Details

Name person conducting testing	V. HAGER
Company	AVECS Bergen GmbH
Inspection date	17.02.2007
Inspection location	Portland, OREGON / USA

1. Pre-existing alarms

	Yes	No	N/A
Confirm that no alarms were present at start of procedure	X		

2. Power supply alarm check

		Yes	No	N/A
Remove source of external power. Confirm that alarm is activated.		X		
Record time (hh.mm)				

3. Reserve power source check

Allow VDR to continue running for 1 hour 55 minutes from '2' above.

		Yes	No	N/A
Confirm that equipment is still operating at this time, with no additional alarms.		X		
Record time (hh.mm)				

4. Reserve power source shutdown check

		Yes	No	N/A
2 hours 05 minutes from '2' above confirm that the VDR has automatically stopped recording.		X		
Record time (hh.mm)				

5. Battery expiry dates

Battery	Expiry date (where applicable)	Yes	No	N/A
Acoustic beacon	May 2008	X		
Reserve power source	March 2009	X		

6. Acoustic beacon test

	Yes	No	N/A
Using manufacturer's test equipment confirm that acoustic beacon is functional or by the substitution of a certified fully operational unit.		X	

new beacon will be send for replacement

7. Overall condition of equipment

Inspect equipment and record condition, tick if satisfactory:

Sub unit	Notes on condition			
Protective capsule		X		
External cables		X		
Main unit		X		

8. Interfaces: Operation and recording

Date and time	Preferably external to ship (e.g. Global Navigation Satellite System.)		X		
Ship's position	Electronic Positioning system		X		
Speed (through water or over ground)	Ship's designated speed and distance measuring equipment		X		
Heading	Ship's compass		X		
Bridge audio	1 or more bridge microphones		X		
Communications Audio	VHF		X		
Radar data- post display selection	Master radar display		X		
Water depth	Echo sounder		X		
Main alarms	All mandatory alarms on bridge	No output from "GE" Automation Sys.		X	
Rudder order and response	Steering gear and autopilot		X		
Engine order and response	Telegraphs, controls and thrusters	No output from GE Automation Sys.		X	
Hull openings status	All mandatory status information displayed on bridge	~~No output from GE Automation Sys.~~			X
Watertight and fire door status	All mandatory status information displayed on bridge		X		
Acceleration and hull stresses	Hull stress and response monitoring equipment **where fitted**				X
Wind speed and direction	Anemometer **where fitted**		X		

9. Change or repair of sensors

Check maintenance records of VDR		X		
Confirm any defects properly rectified				

Person authorized by the Manufacturer [redacted]	**Ship's representative** [redacted]
Date 17.02.2007	**Date** 2/18/07

If the manufacturer does not complete a review and issue a completed test report within 45 days, this test report should go forward for certification.

10. Manufacturer's analysis

Note – This confirms the endorsement by the manufacturer of the tests and that the master record/database has been checked.

Manufacturer's analysis of 12-hour log is attached and in accordance with International Electrotechnical Commission (IEC) 61996 Maritime navigation and radiocommunication equipment and systems – Shipborne voyage data recorder (VDR) – Performance requirements – Methods of testing and required test results section 4.6 – Data items to be recorded (resolution A.861(20), section 5.4). Confirmation that all data is available throughout the 12-hour recording.	X		
Date and time of above log.			

11. Observations and additional manufacturer's requirements

Note – This specifically provides for the logging of significant events that may have occurred on board since the previous test, including the refitting of equipment or major unit change to existing equipment. – Any or all of which may have an impact on the availability or quality of the VDR/S-VDR input signal.

- replaced one microphone, see attached service report

This performance test was conducted in accordance with SOLAS regulation V/18.8 and forms part of the procedure for the issue of the Annual Performance Test Certificate. The results, information and any comments should be relayed to the manufacturer in accordance with the instructions contained within the Operation Manual. Subject to satisfactory results, an Annual Performance Test Certificate will then be issued.

In accordance with the principles of harmonization of Certificates, the Certificate, when issued, will remain valid until the next annual re-validation of that Certificate, subject to the equipment being maintained in appropriate operational condition.

cmc electronics

600, BOULEVARD DR. FREDERIK PHILIPS, VILLE ST-LAURENT (QUÉBEC) CANADA H4M 2S9
NAVCOMM

NOM DU CLIENT/CUSTOMER'S NAME

SER.	FEUILLE DE TRAVAIL SERVICE WORK ORDER	DATE J-D M A-Y	Nº DE COMPTE DU CLIENT CUSTOMER ACCOUNT NO.	NOM DU BATEAU/ENDROIT/VÉHICULE/INDICATIF D'APPEL SHIP'S NAME/SITE/VEHICLE/CALL SIGN	Nº DE COMMANDE DU CLIENT/CUST
A	132988			EMPRESS OF THE NORTH	

Nº ORDER/Nº DE CONTRAT SALES ORDER/CONTRACT NO.	MAT TECHNICIEN TECHNICIAN ID#	TRAVAIL WORK	RÉGION DU SERVICE SERVICE AREA

TAXE SUR VENTES/FED. SALES TAX APPLICABLE ☐	Nº DE LICENCE - CERT. D'EXEMPT. LICENSE NO. - EXEMPTION CERT.	
TAXE SUR VENTES/PROV. SALES TAX APPLICABLE ☐	Nº DE LICENCE - CERT. D'EXEMPT. LICENSE NO. - EXEMPTION CERT.	
HST APPLICABLE ☐	Nº DE LICENCE - CERT. D'EXEMPT. LICENSE NO. - EXEMPTION CERT.	

DES FRAIS D'ADMINISTRATION DE 1 1/2% PAR MOIS (18% PAR ANNEE) SONT DÉBITÉS AUX COMPTES ÉCHUS
SERVICE CHARGE IS MADE ON OVERDUE ACCOUNTS AT 1 1/2% PER MONTH (18% PER ANNUM)

INSTRUCTIONS

TRAVAIL EXÉCUTÉ/WORK PERFORMED

ATTEND VESSEL IN VICTORIA
REPLACED DEFECTIVE FWD STBD
MICROPHONE NOW SELF TESTS OK

TEST GPS SIGNAL NOW OK

PIÈCES ET MATÉRIAUX UTILISES PARTS & MATERIALS USED	QTY	PRIX A L'UNITE UNIT PRICE	M A

TRAVAIL COMMENCE LE DATE WORK STARTED J-D M A-Y	TRAVAIL TERMINÉ DATE WORK FINISHED J-D M A-Y	FICHE D'INSTALLATION INSTALLATION RECORD
	11 5 06	
TYPE D'EQUIPMENT/EQUIPMENT TYPE: VDR	Nº DU MODÈLE/MODEL NO.: AVECS	FICHE D'EMPLACEMENT LOCATION RECORD
LIEUX DES TRAVAUX/WORK SITE: Victoria	Nº DE SÉRIE/SERIAL NO.	DRAPEAU/FLAG
[redacted] SURVEILLANT SUPERVISOR	[redacted]	

FACTURATION LOCALE LOCAL BILLING

TOTAL DES PIÈCES ET MATÉRIAU UTILISÉS TOTAL PARTS & MATERIALS USED	$
TOTAL DE LA MAIN D'OEUVRE/TOTAL LABOUR	$
DÉPENSES GLOBALES/TOTAL EXPENSES	$
R100767870 TPS/GST	$
TAXE SUR VENTES PROVINCIALE PROVINCIAL SALES TAX 1000057408 TVQ/QST — Nº DE COMPTE DE TAXE/TAX ACCOUNT 2 1 0 1 0	$
MONTANT GLOBAL DÛ TOTAL AMOUNT DUE	$

CUSTOMER (