Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

22 March 2018

Sub-Committee of Experts on the Transport of Dangerous Goods

Fifty-third session

Geneva, 25 June-4 July 2018

Item 3 of the provisional agenda

Listing, classification and packing

Classification of self-inflating recovery devices – Addendum to ST/SG/AC.10/C.3/2013/13

Transmitted by the expert from Germany

This document provides further technical information on self-inflating devices.

SRD - 500S

Streamer Recovery Device

The SRD-500S is an automatic, sealed Streamer Recovery Device that aids in the recovery of seismic marine streamers which have been accidentally severed from a tow vessel. These devices are placed at specified intervals (300 meters maximum) on the streamers and are activated when the streamer sinks to a depth of approximately 48 meters or pressure of 70 psi.

The SRD-500S is designed to be attached above cable leveling devices and is non-magnetic, enabling the use of heading sensors.

Features

- All critical components are isolated from seawater before, during and after actuation
- Replaceable batteries and recharge kits allows actuated units to be refurbished anywhere
- Externally visible flashing LED assures integrity of batteries and firing circuit
- Dual battery system
- Corrosion resistance of internal components through sealed design

SRD-500S mounted above OYO Geospace's Navigator Bird cable leveling device

Technical Specifications

- Buoyancy in Water: 1.8 kg (4.0 lbs.)
- Weight in Air: 8.2 kg (18 lbs.)
- Maximum Lift: 227 kg (500 lbs.)
- Gas Source: CO^2
- Activator: Electronically Activated Squib
- Fixed Activation: 70 psi pressure or 48 meters seawater
- Batteries: 2 each, 3 volt Extended Life, Non-Magnetic Lithium
- Dimensions:

  Overall Length: 117.5 cm (46.25 in.)
  Height: 16.5 cm (6.5 in.)
  Width: 8.6 cm (3.375 in.)

OYO GEOSPACE

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Regional Offices

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Kirovogradskaya, 36
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011 (7) 3472 25 39 73

OYO Geospace China
Room 700, 7th Floor, Lido Office Tower, Lido Place
Jichang Road, Jiang Tai Road, Beijing, 100004, P.R.China
011 (86) 10 643 78 758

OYO Instruments, Europe Ltd.
F3 Braningham Business Park, Enterprise Way, Luton
Bedfordshire LU3 4BU, England
011 44 (0) 1582 573 980

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product and Company Information

Trade Name(s):	Part Number(s):
SRD-500 Recovery Device	20-210000
SRD-500 Rebuild Kit	20-210001
SRD-500 Recovery Device Refurb	461-00550-01
SRD-300 to 500 Upgrade	461-00570-01
SRD-500S Recovery Device 48m	20-220001
SRD-500S Recovery Device 75m	20-220001-75
SRD-500S Recovery Device 100m	20-220001-100
SRD-500S Recharge Kit	461-00700-GEO
SRD 500S Refurb	461-00790-01
HSRD	450-00780-01
HSRD Capitalized Asset	450-00780-01-CAP
HSRD GEN 2	450-00780-03
HSRD GEN 2 Capitalized Asset	450-00780-03-CAP
HSRD Variable Depth GEN 2	450-00780-04
HSRD Variable Depth GEN 2 Capitalized Asset	450-00780-04-CAP

Table 1

Product Category: Streamer Recovery Device
Product Name: See Table 1
UN Number: UN3363, Class 9, Dangerous Goods in Apparatus

Manufacturer's Name: Geospace Technologies, LP
Manufacturer's Address: 7007 Pinemont Drive, Houston, TX, USA 77040
Telephone +713-986-4444
Emergency Contact: CHEMTREC at +800-424-9300
Date Prepared: February 6, 2012

Note: The structural design prevents the release of hazardous materials contained therein when the unit is used for its intended purpose and is not abused.

SECTION 2 – HAZARDS IDENTIFICATION

Substance(s)	**Qty.**	**Notes**
Carbon Dioxide	1 lb.	Gas under pressure up to 860 psi @ 70°F
Igniter	1 each	Net Reactive Material Content: 0.035 gram
3V Manganese Dioxide Lithium Primary Battery	2 each	Lithium Content: 0.54 gram

Table 2

Carbon Dioxide: UN1013, Class 2.2
Emergency Overview: High pressure liquid and gas can cause rapid suffocation, can increase respiration and heart rate, may cause frostbite.
Avoid breathing gas. Store and use with adequate ventilation. Do not get liquid in eyes, on skin, or clothing. Cylinder temperature should not exceed 52°C (125°F).

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Igniter: UN0454, Class 1.4S

Emergency Overview

Common Names:

Lead Thiocyanate: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucous membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin contact. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Potassium Chlorate: Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling.

3V Manganese Dioxide Lithium Primary Battery: UN3091, Class 9

Emergency Overview: Chemical contents are sealed in metal can. Therefore, risk of exposure never occurs unless battery is mechanically or electrically abused.
Risk of explosion by fire is anticipated if batteries are disposed of in fire or heated above 100°C. Stacking or jumbling of batteries may cause external short circuits, heat generation, in some cases, allowing fire or explosion.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CO_2 Bottle

Material	CAS Number	% Volume
Carbon Dioxide	124-38-9	100

Table 3

Igniter

Material	CAS Number	% Volume
Lead Thiocyanate	592-87-0	N/A
Potassium Chlorate	3811-04-9	N/A

Table 4

3V Manganese Dioxide Lithium Primary Battery

Material	CAS Number	% Volume
Manganese Dioxide	1313-13-9	30~45
Lithium Metal	7439-93-2	3~4
Electrolyte (Mixture of organic solvent)	N/A	10~20

Table 5

Note: Electrolyte does not include substances available for classification of GHS.

MATERIAL SAFETY DATA SHEET

SECTION 4 – FIRST AID MEASURES

In general: The device presents no hazards that require first aid measures as hazardous materials contained within are prevented from release due to structural design and when operated in accordance with it's intended use.

If inhaled: N/A

Eye contact: N/A

Skin contact: N/A

Swallowed: N/A

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media: Water, Carbon Dioxide, dry chemical powder, or appropriate foam.

Unusual hazards: Packed device may inflate without warning under fire or excessive heat conditions.

Personal protection: Proper PPE should be used when handling device.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

The device presents no hazards that require safety measures.

SECTION 7 – HANDLING AND STORAGE

Handling: When not in use insert deactivation pin. Do not stand directly in front of ends of the device.

Storage: N/A

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

If inflated in a confined space, either intentionally or by accident, provide ventilation to disperse CO_2 gases.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Color: The cylinder contains Carbon Dioxide, a colorless gas.

Odor: Odorless

Flammability: N/A

Solubility: N/A

Spontaneous ignition: N/A

MATERIAL SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions to be avoided: Intensive heat and fire.

Hazardous decomposition products: May form harmful fumes under fire conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

N/A

SECTION 12 – ECOLOGICAL INFORMATION

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

Remove as domestic waste.

SECTION 14 – TRANPORT INFORMATION

Classified according to IMDG*[1] and IATA*[2]:

Class 9
UN3363
Proper shipping name: Dangerous Goods in Apparatus

SECTION 15 – REGULATORY INFORMATION

United States D.O.T. regulated. Devices not activated must be Haz-Mat certified.

SECTION 16 - OTHER INFORMATION

Reference:
IATA Dangerous Goods Regulations, latest edition*[2] .

Notes on this sheet:
***1** IMDG Code – 2011 Edition: International Maritime Organization
***2** Dangerous Goods Regulations 52nd Edition Effective 1 January 2011: International Air Transport Association (IATA)

The information and recommendations set forth are made in good faith and believed to be accurate.

The information refers to normal use of product. Geospace Technologies, LP makes no warranty expressed or implied.

HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET

(Conforms to the requirements of 29 CFR 1910.1200)

I. PRODUCT IDENTITY: Igniter, 1.4S UN0454
P.G. II EX-9010055
(Cartridge, CAD P/N: 071045-1)

Net Reactive Material Content: 0.035 gram maximum per Cartridge.

CARTRIDGE ACTUATED DEVICES, INC.
51 Dwight Place
Fairfield, N.J. 07004
Telephone Number: 973-575-1312
Prepared by CAD Engineering

24 HOUR EMERGENCY PHONE #
IN U.S.A.: **800-424-9300**
OUTSIDE U.S.A.:
202-483-7616 CALL COLLECT
FIRE, SPILL, EMERGENCY ONLY

Material(s) described is/are: Company proprietary Electro-Pyrotechnic device and by-products of initiation.

II. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS:

Chemical and common name of Hazardous chemical ingredients:

** COMMON NAME	CAS NO.
Lead Thiocyanate	000592-87-0
Potassium Chlorate	003811-04-9

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point:	N/A	Solubility in water:	Slightly
Specific gravity:	N/A	pH:	N/D
Vapor Pressure:	N/A	Evaporation Rate:	N/A
% Volatile:	Negligible.		

IV. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

DANGER Extremely Flammable --EXPLOSIVE--
Keep away from heat and keep shunted.

Flash Point:	N/D
Flammable Limits:	None, Explosive Device
Auto-Ignition Temperature:	225º F
Extinguishing Media:	Dry, Chemical Extinguisher, water *(see next note).
Special Fire-Fighting Procedures:	None, (do not fight fires involving explosives).
Grounding Procedure:	Keep shunted when handling or during storage.
Stability Considerations:	Stable
Incompatibility:	Shock, Flame and static Sources.
Hazardous decomposition products:	None
Hazardous products of combustion:	Flame, high heat in small quantities, Carbon Monoxide, Carbon Dioxide, Hydrogen Chlorides, traces of cyanide compounds, Lead Oxides and salts.
Hazardous Polymerization:	None

V. HEALTH HAZARD DATA

Emergency and First Aid Procedure:

Treat burns and any laceration by cleaning and applying sterile bandages. Transport individual for further medical treatment.

Primary Route of Entry:	Inhalation of combustion gas following initiation (applies only if Cartridge ruptures)
Cancer Information:	None
Reported effects on Humans:	Respiratory irritant (If the Cartridge ruptures)
Other:	N/A (Cartridge is intact)

VI. SPILL AND LEAK PROCEDURES

Steps to be taken if material is spilled: (applies only if Cartridge is ruptured)

Clean the spill by liberally wetting down with solvent (Acetone, Butyl Acetate or Alcohol) then by wiping material up with paper towels or with cotton rag. Keep a fire extinguisher present. Wear safety glasses, protective gloves, and non-static generating clothing during clean up or transfer operation.

Waste Disposal Method:
Remotely initiate individual Cutter in a restraining fixture or burn in the open in an isolated location. Disposal must be in accordance with local, state, and Federal regulations.

VII. APPLICABLE CONTROL MEASURES

Appropriate Hygienic Practices:	N/A
Personal Protective Equipment:	Safety glasses & grounding devices (ground straps and/or conductive footwear).
Work Practices:	Avoid high temperatures; Wear personal protective equipment. Work behind shielding and keep Cutter shunted.
Handling and Storage precaution:	Recommended storage, 70°F
Engineering Controls:	Work with device in a shielded area, keep shunted until installed.

Protective Measures during Repair and Maintenance:
Eliminate static discharge sources. Avoid flame or high heat. Shield the device when working with the device.

DISCLAIMER: The above information was taken from various published and unpublished sources and is believed to be accurate and to represent the best information currently available to us. However, we make no warranty, expressed or implied, of the accuracy of such information, and assume no liability resulting from its use. Users should make their own investigation to determine suitability of the information for their particular purposes.

THIS UNIT IS NOT USER SERVICEABLE. DO NOT ATTEMPT DOWNLOADING OR DISASSEMBLING.

Net Reactive Material Content: 0.035 gram maximum per Cartridge.

FDK

Issued date: January 1, 2011

PRODUCT SAFETY DATA SHEET

1. Product and Company identification

Product Category : Manganese Dioxide Lithium Primary Battery
Product name : See Table 1
Nominal Voltage : 3 V (6 V for models CR-P2 and 2CR5 in the Table 1)

(Table 1)

Type	Lithium (gr.)
CR17335E-R	0.54
CR17450E-R	0.82
CR17335E-N	0.57
CR17450E-N	0.92
CR17335HE-R	0.47
CR17450HE-R	0.70

Type	Lithium (gr.)
CR17450HE-N	0.81
CR2	0.30
CR123A	0.56
CR-P2	1.12
2CR5	1.12
CR-V3	1.28

Supplier's Name : FDK CORPORATION
Supplier's Address : 5-36-11, Shimbashi, Minato-Ku, Tokyo, 105-8677, Japan
Telephone +81-3-3434-1279
Emergency Contact : CHEMTREC at (800)424-9300

Note : The battery is neither substance nor mixture but product and having no risk to life and health under normal use or transportation because ingredients of battery is not leaked out by virtue of hermetical sealing with metal case.
This MSDS notify possible risk of our battery under abnormal use but mainly aim to provide information

2. Hazards identification

The important hazards and adverse effects of the chemical product	No information available
Chemical product - specific hazards	No information available
Outline of an anticipated emergency	Chemical contents are sealed in metal can. Therefore, risk of exposure never occurs unless battery is mechanically or electrically abused. Risk of explosion by fire is anticipated if batteries are disposed of in fire or heated above 100 degree Celsius. Stacking or jumbling of batteries may cause external short circuits, heat generation, in some case, allowing fire or explosion.

Note) Our battery is not classified in accordance with the GHS classification.

3. Composition/ information on Ingredients

Material	CAS No.	Contents
Manganese Dioxide	1313-13-9	30 ～ 45 wt%
Lithium metal	7439-93-2	3 ～ 4 wt%
Electrolyte [Mixture of organic solvent]	–	10 ～ 20 wt%

Note) Electrolyte is mixture of organic solvent and does not include substances available for classification of GHS.

4. First-aid measures

Chemical contents are sealed in metal can. Therefore, risk of exposure never occurs unless battery is mechanically or electrically abused. First aid shown below may need to be taken in such abnormal case only.

Inhalation :	Provide fresh air. Refer for medical attention.
Skin contact :	Wash the contact areas off immediately with plenty of water and soap. If appropriate procedure are not taken, this may cause sores on the skin
Eyes contact :	Flush the eyes with plenty of water for at least 15 minutes immediately, without rubbing. Take a medical treatment. If appropriate procedures are not taken, this may cause an eye irritation
Swallowing :	In case of swallowed battery, immediately refer for medical attention.

5. Fire-fighting measures

Fire extinguishing agent: Dry chemical, alcohol-resistant foam, powder, atomized water, carbon dioxide and dry sand are effective.

Extinguishing method: Escape batteries to safe place prevent from ignition by spreading fire.
Because packaging material of battery is paper, use water extinguisher, CO2 extinguisher or powder extinguisher as normal extinguisher.
Since vapor, generated from burning batteries may make eyes, nose and throat irritate, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases.

Special equipment for the protection of firefighters
Hand protection: A pair of flame-proof groves
Eye protection: Face mask
Protective wear of skin and/or body: Protective closing

6. Accidental release measures

Chemical contents are sealed in metal can. But if the battery is mechanically or electrically abused, contents may leak out. In such case, take action as showing below.

Personal precautions : Temporary inhalation of odor and attaching of electrolyte to skin does not cause serious health hazard. Be sure the ventilation and washing out of electrolyte quickly.
Environmental precautions : Clean up it quickly. Specific environmental precaution is not necessary.
Method and materials for containment and methods and materials for cleaning up:
Contain and collect spillage and place in container for disposal according to local regulations (see Section 13).
Prevention of secondary hazards : If batteries catch fire, separate other batteries as well other inflammable materials from flamed batteries quickly in order to prevent spreading fire.

7. Handling and storing

Transportation and freight handling:	Make sure compliance with packing instruction of transportation regulation in case of arrangement of original packing to small package, incorporation batteries with appliance or set in appliance. Prevent wetting of packing by rain or dew condensation. Do not place packing near source of heat. Do not drop packing from more than 1m height and do not press packing allow deforming it.
Handling :	Do not charge, short-circuit, disassemble, deform, heat above 100℃ or incinerate. Do not pile up or mingle batteries with each other. Do not place battery on metal case, metal plate or antistatic material. In case of multi cell application, replace all batteries to new at once when replacing used batteries.
Storage :	Be sure to store batteries in well-ventilated, dry and cool conditions. Keep away from water, rain, snow, frost or dew condensation. Do not store batteries near source of heat or nozzle of hot air. Do not store batteries in direct sunshine. Take care not to get wet packing by dew condensation when packing is removed from cold to warm and humid condition. Enough number of fire fighting apparatuses should be installed in warehouse.

8. Exposure controls and personal protection

There is no need of personal protective equipment on regular handling and storage. In the event, however, a large amount of electrolyte should be released by mechanical or electrical abuse, use the protections as shown below.

Respiratory protection: Mask (with a filter preferably)
Hand protection: Synthetic rubber gloves
Eye protection: Goggles or glasses

9. Physical and chemical properties

State: Solid
Shape: Cylindrical
Since battery is not chemical product, other than above information is not applicable.

10. Stability and reactivity

Stability: Stable on regular handling
Conditions to avoid: External short circuit of battery, deformation by crush, exposure at high temperature of more than 100 degree C (may cause heat generation and ignition), direct sunlight, high humidity
Materials to avoid: Water, a chain, and a piece of metal that causes short circuit.
Hazardous decomposition product: Emitted acrid or poisonous gases in fire.

11. Toxicological information

Since chemicals are contained in a sealed can, there are no hazards.
Toxicological information of main components of battery is shown below as reference.

Manganese Dioxide
- Acute toxicity: rabbit *[1]: LDL_0(blue pipe) =45mg/kg, mouse*[2]: LD_{50}(subcutaneous)=422mg/kg
- Local effects: Stimulus to an eye, a nose, a throat, and a skin
- Chronic toxicity or long-term toxicity: Inhalation of powder dust or fume for a long time (at least 3 months) may cause specific central nerve symptom like Parkinson's disease.
- Reproduction toxicity: Mouse*[3] inhalation TCL_0=49mg/m^3

Lithium metal
- Acute toxicity: No information in a metal state
- Local effects: Touching on a skin or an eye causes thermal burn and alkaline chemical burn.

Electrolyte
- Acute toxicity: No information at present
- Local effects: Slight stimulus to an eye

12. Ecological information

Anticipated behavior of chemical product in environment/possible environmental impact/ecotoxicity	No information available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available

13. Disposal considerations

Dispose of batteries in accordance with applicable federal, state and local regulations.
For safety precaution, battery should be insulated in proper manner; covering both terminals by tape, wrapping of battery in insulative bag or packing battery in original package is recommended in order to prevent ignition or explosion due to short-circuit.

14. Transportation Information

Lithium metal battery is Dangerous Goods (class 9), having certain UL number as showing below table, the UL number of which is listed in the Dangerous Goods List. In case content of Lithium or Lithium alloy is not over 1g (Battery pack: 2g), such battery (and battery pack) is permitted to transport by Special provision 188 in accordance with United Nations Recommendation on the Transport of Dangerous Goods.
Since weight of Lithium of our battery is not over the aforesaid weight, it is applicable to Special provision 188 of Non-dangerous goods. Our battery also complies with the requirement of UN Manual of Test and Criteria, Part 3, subsection 38.3 and IATA Packing instruction PI968 – Section Ⅱ, so our battery is permitted to transport by air as Non-dangerous Goods.

UN No.	Proper Shipping Name/Description
3090	Lithium metal batteries
3091	Lithium metal batteries contained in equipment
3091	Lithium metal batteries packed with equipment

Related regulations: Following regulations shall be cited and considered.

Transportations	Related organization / Issue documents
Air transport (by airplane)	ICAO（International Civil Aviation Organization）／ TI（Technical Instruction） IATA（International Air Transport Association）／ DGR（Dangerous Goods Regulations）*4
Maritime transport (by ship)	IMO（International Maritime Organization）／ IMDG Code（International Maritime Dangerous Goods Code）*5
Land transport (Intra-European)	RID（International Carriage of Dangerous Goods by Rail）、ADR（International Carriage of Dangerous Goods by Road）
USA / UN	USDOT（US Department of Transportation）／ DOT 49 CFR（US law） UN: Recommendations on the transport of dangerous goods: Manual of Tests and Criteria 5th revised edition [ST/SG/AC.10/11/Rev.5]: Part 3, Subsection 38.3

15. Regulatory information

Environment-related law of batteries; EU nations have applicable law in accordance with Directive 2006/66/EC and other some countries, China, Korea, Brazil, some provinces of USA and Canada or so have similar law.

16. Other information

Reference

- Federal Resister / Vol.65, No.174 / Thursday, September 7, 2000 / Notices
- IATA Dangerous Goods Regulations, latest edition *4

Notes on this sheet

*1 Journal of the D.I Mendeleeva All-Union Chemical Society.
(V/0 Mezhdunarodnaya knija, 113095 Moscow, USSR) V.5-1960

*2 Merck Index; an Encyclopedia of Chemicals, Drugs, and Biologicals, 11th ed.,
Rahway, NJ 07065, Merck & Co., Inc. 1898

*3 Federation of American Societies for Experimental Biology (Bethesda, MD) V.1-46, 1942-87

*4 Dangerous Goods Regulations – 52nd Edition Effective 1 January 2011: International Air Transport Association (IATA)

*5 IMDG Code – 2008 Edition: International Maritime Organization (IMO)

The information and the recommendations set forth are made in good faith and believed to be accurate until validated date shown below.
The present file refers to normal use of the product in question. FDK Corp. makes no warranty expressed or implied.
Validated date: December 31, 2011

U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

01/02/2014

Mr. Earl C. Smith
GTC, Inc.
7007 Pinemont Drive
Houston, TX 77040

Dear Mr. Smith:

We have received your September 12, 2013 application for renewal of CA2002110003 and are processing your request. The application for renewal was filed in a timely manner as prescribed in § 107.705(c), i.e., at least 60 days before the expiration date; therefore, you may use your approval until final administrative action is taken.

Additionally, Paragraph 1. of CA2002110003 is amended to read:

> **APPROVAL HOLDER**: GTC, Inc.
> 7007 Pinemont Drive
> Houston, TX 77040

Finally, Paragraph 3. of CA2002110003 is amended to read:

> **SYNOPSIS**: This Competent Authority Approval, referred to hereafter as approval, serves as an "approval" as defined in 49 CFR 171.8 and 7.9.2 of the IMDG Code, and as an "exemption" as defined in 1;3.1.1 of the ICAO TI. GTC, Inc. is authorized to offer for transportation its SRD-500S Streamer Recovery Device, when shipped in accordance with the conditions of this approval. The SRD-500S is an automatic, sealed Streamer Recovery Device that aids in the recovery of seismic marine streamers which have been accidentally severed from a tow vessel. These devices are placed at specified intervals (300 meters maximum) on the streamers and are activated when the streamer sinks to a depth of approximately 48 meters or pressure of 70 psi. The most recent revision supersedes all previous revisions.

If you have any questions regarding this extension letter, please contact the Office of Hazardous Materials Safety Approvals and Permits Division at (202) 366-4535.

Sincerely,

For Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety