

East Building, PHH – 32 1200 New Jersey Avenue, Southeast

Washington, D.C. 20590

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Pipeline and Hazardous
Materials Safety Administration

The US Department of Transportation Competent Authority for the United States

CLASSIFICATION OF EXPLOSIVES EXPIRATION DATE:02-28-2015

Based upon a request by W.T. Bell International, Inc., 8811 Emmott, Houston, TX 77040, the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR). A copy of your application, all supporting documentation and a copy of this approval must be retained and made available to DOT upon request.

U.N. PROPER SHIPPING NAME AND NUMBER:

Articles, explosive, n.o.s., UN0349

U.N. CLASSIFICATION CODE: 1.4S

REFERENCE NUMBER

EX2009060062

PRODUCT DESIGNATION/PART NUMBER

PXI-TC900 (Installed with Pacific Scientific EBW #2-300180) #PXI-TC900 (Installed with Teledyne

RISI EBW #RP-830)

NOTES: This classification is only valid when the device has a threaded steel shipping cap installed over the output end containing the detonator. The following packaging method is assigned: Inner Packaging - Liners, double-wall fiberboard, installed in the outer packaging. Outer Packaging - UN 4G fiberboard box, each containing one article.

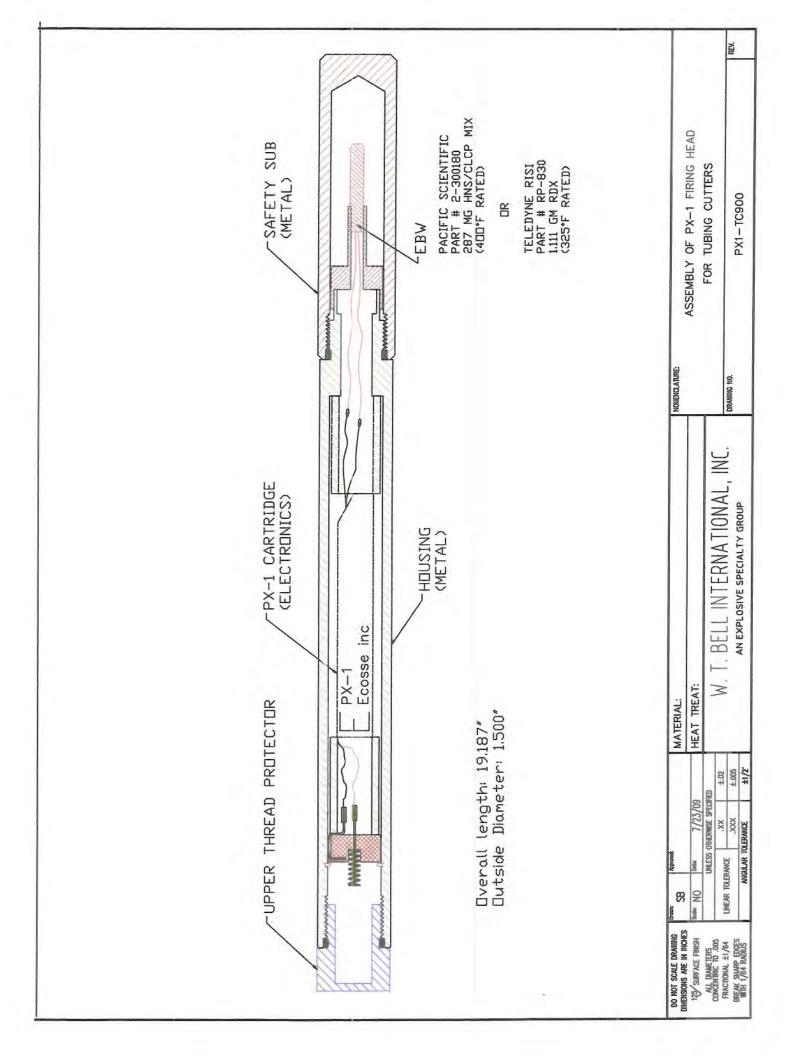
DATED: 03/22/2010

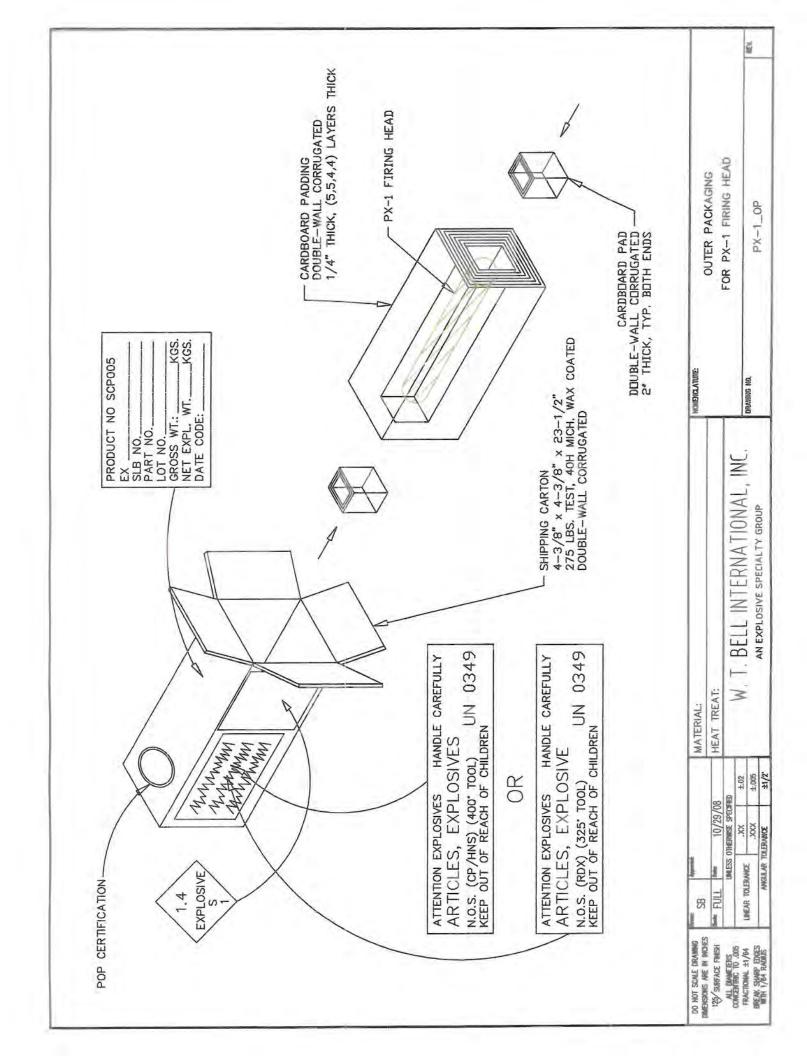
For Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

Harfreit K. Singh

Tracking No: 2009064042





TB W. T. Bell International, Inc.

2534 B FM 1375 East Huntsville, TX 77340 Phone: (936) 344-2225

Fax: (936) 344-2122 wtbii@hughes.net

UN APPROVALS CERTIFICATE

UN PERFORMANCE ORIENTED PACKAGING PERIODIC RETEST

Certificate No. 007
Packaging ID: PX1 Firing Head
Reference Test Report No. 007
Dated: 06/25/2012

Periodic Retest of a
UN 4G Fiberboard Box
With Inner Packaging and Containing One (1) Explosive Device

4G/Y3.8/S/** USA/+WT Bell Intl., Inc.

Certificate Expires: 06/25/2014

Tina Yates - Plant Supervisor W. T. Bell International, Inc.







NATIONAL INSTITUTE FOR INDUSTRIAL ENVIRONMENT AND RISK
- decree nr 90-1089, 7 December 1990 - order from the Minister of Industry, 20 December 1996 -

EXPLOSIVES FOR CIVIL USES

- 1 EC TYPE-EXAMINATION CERTIFICATE
- 2 0080.EXP.10.0021
- 3 This certificate is relating to the following product:

ASSEMBLY OF PX-1 FIRING HEAD

P/N PX1-TC900 or PX1-TC900HT

4 - This product is manufactured by:

W.T. BELL INTERNATIONAL, Inc.

8811 Emmott, Ste. 1900 HOUSTON, Texas 77040 (USA)

The applicant for the examination is:

ETUDES ET PRODUCTION SCHLUMBERGER (EPS)

1, rue Henri Becquerel B.P. 202 92140 CLAMART (FRANCE)

- 5 The above named product is specified in the enclosed appendix.
- 6 The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that:

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.

7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the production quality assurance (module D) defined in the same annex. In compliance with para 3.3 of module D, the decision for the assessment has been notified to the manufacturer.

Verneuil-en-Halatte, May 19, 2010 The Chief Executive Officer of INERIS By delegation, the Certification Division, Manager

01.11.10

C. MICHOT







NATIONAL INSTITUTE FOR INDUSTRIAL ENVIRONMENT AND RISK

- decree nr 90-1089, 7 December 1990 -

- order from the Minister of Industry, 20 December 1996 -

Appendix to the EC type-examination certificate nr 0080.EXP.10.0021

A1 - PRODUCT NAME : ASSEMBLY OF PX-1 FIRING HEAD P/N PX1-TC900 or PX1-TC900HT

A2 - PRODUCT DESCRIPTION:

general identification:

- family : assembly

- sub-family : assembly of EBW detonator

- main explosive : EBW detonator Pacific Scientific (P/N 2-300180) or

EBW detonator TELEDYNE RISI, Inc. RP-830 (P/N 188-7342)

- mass of explosive : 1.111 g of RDX or 0.287 g of mixture CP/HNS

- overall length : 48.73 cm (19.187") - outside diameter : 3.81 cm (1.500")

- total mass : 2534.111 g or 2533.287 g - manufacturer's references : PX1-TC900 or PX1-TC900HT

general conditions:

- shelf life : 5 years

- limit temperature for use : 163°C (325°F) for 1 hour (PX1-TC900 (RDX)) or

204°C (400°F) for 1 hour (PX1-TC900HT (CP/HNS))

- limit temperature for storage : -30°C / +60°C / 90 % RH max

A3 - DOCUMENTATION:

reference

date

- decision on certification

DCE-10-113586-05671A.

5/19/2010

PNEO/GBE-AgCE 5

A4 - PARTICULAR CONDITIONS FOR USE:

As specified by the manufacturer for use in oil well industry.

A5 - MARKING:

- CE and symbol of Notified Body

in conformity with para 1 of module D in annex II of the Directive

- others

batch number, certificate nr

W. T. BELL INTERNATIONAL, INC.

IDENTIFICATION PART #: PX1-TC900HT **DECRIPTION: PX-1 FIRING HEAD**

DESCRIPTION OF PRODUCT

An electronic bridge wire (EBW) detonator wired in series with an electronic capacitance cartridge, (PX-1 Fire set), housed in a metal housing.

Note: CE approval for individual EBW Detonators and PX-1 fire set is attached.

Constituents and weight of one firing head:

Metal Housing, Fire set, ect: 2533 q CP/HNS Explosive -0.287 g TOTAL: 2533.287 g Total weight of explosive material: 0.287 g

PRINCIPLES OF FUNCTION

These firing heads are used to arm a tubing cutter which is used to sever downhole oilfield pipe. They provide a simple and safe way for the field to arm a tubing cuterr.

CLASSIFICATION FOR TRANSPORTATION

UN No: 0349 Proper Shipping Name: Articles, Explosive, n.o.s.

Shipping Specification: 4G/Y3.8/S/** +4X5487 Certificate number:

DIVISION, HAZARD CLASS AND COMPATABILITY GROUP: 1.4S

PACKAGING: 62.2 X 12.7 X 12.7 cm containing one PX-1 Firing Head. Inner Net Weight of Product:

packaging: 1 ea 139.7 x 59.4 cm corrugated double wall roll up tubular insert emcompassing: 2 ea 4.8 x 4.4 x 3.8 cm corrugated roll up spacer inserts.

Gross Weight of Product: 3.67 kg Net Weight of Explosive: 0.287 g

WEIGHT

2.54 kg

TOXICITY: None

EFFECTS OF ACCIDENTAL INITIATION IN PACKAGE

- Danger of Explosion
- Danger of Projections

PRECAUTIONS FOR STORAGE

Temperature Range: -30°C / +60°C Humidity Content: Max 90%

SENSITIVITY		PRECAUTIONS IN CASE OF ACCIDENT
Flashpoint Temperature:	N/A	-In case of major fire, DO NOT INTERVENE.
100% Functioning Energy:	N/A	-MOVE AWAY AND KEEP AWAY as much as possible.
0% Functioning Energy:	N/A	-TAKE SHELTER from the effects of the explosive blast,
Electrostatic Discharge:	N/A	of direct projectiles and falling debris.
Electromagnetic Field:	N/A	-If possible, MOVE packages that have not been affected
Vibration:	N/A	AWAY from the area.
Shock:	N/A	-STAY OUT OF THE DANGER ZONE when using a fire
Drop:	N/A	hose

10-Dec-09

W. T. BELL INTERNATIONAL, INC.

10-Dec-09

IDENTIFICATION PART #: PX1-TC900 DECRIPTION: PX-1 FIRING HEAD

DESCRIPTION OF PRODUCT

An electronic bridge wire (EBW) detonator wired in series with an electronic capacitance cartridge, (PX-1 Fire set), housed in a metal housing.

Note: CE approval for individual EBW Detonators and PX-1 fire set is attached.

Constituents and weight of one firing head:

Metal Housing, Fire set, ect: 2533 g
Explosive - RDX: 1.111 g
TOTAL: 2534.111 g
Total weight of explosive material: 1.111 g

PRINCIPLES OF FUNCTION

These firing heads are used to arm a tubing cutter which is used to sever downhole oilfield pipe. They provide a simple and safe way for the field to arm a tubing cuterr.

CLASSIFICATION FOR TRANSPORTATION

UN No: 0349 Proper Shipping Name: Articles, Explosive, n.o.s.

Shipping Specification: 4G/Y3.8/S/**
Certificate number: +4X5487

DIVISION, HAZARD CLASS AND COMPATABILITY GROUP: 1.4S

PACKAGING: 62.2 X 12.7 X 12.7 cm containing one PX-1 Firing Head. Inner packaging: 1 ea 139.7 x 59.4 cm corrugated double wall roll up tubular insert emcompassing: 2 ea 4.8 x 4.4 x 3.8 cm corrugated roll up spacer inserts.

WEIGHT

Net Weight of Product: 2.54 kg

Gross Weight of Product: 3.67 kg

Net Weight of Explosiv 1.111 g

TOXICITY: None

EFFECTS OF ACCIDENTAL INITIATION IN PACKAGE

- Danger of Explosion

- Danger of Projections

PRECAUTIONS FOR STORAGE

Temperature Range: -30°C / +60°C Humidity Content: Max 90%

remperature Range30 C / +60 C		Humaily Content. Wax 90%
SENSITIVITY		PRECAUTIONS IN CASE OF ACCIDENT
Flashpoint Temperature:	N/A	-In case of major fire, DO NOT INTERVENE.
100% Functioning Energy:	N/A	-MOVE AWAY AND KEEP AWAY as much as possible.
0% Functioning Energy:	N/A	-TAKE SHELTER from the effects of the explosive blast,
Electrostatic Discharge:	N/A	of direct projectiles and falling debris.
Electromagnetic Field:	N/A	-If possible, MOVE packages that have not been affected
Vibration:	N/A	AWAY from the area.
Shock:	N/A	-STAY OUT OF THE DANGER ZONE when using a fire
Drop:	N/A	hose

CASE NUMBER: Z784243

TITAN SPECIALTIES, LTD.
ATTN: DON RHOADS
11785 HWY 152
PAMPA, TX 79065

August 18, 2010 G078963

BIS ISSUES THIS COMMODITY CLASSIFICATION DETERMINATION BASED UPON THE ASSUMPTION THAT THE APPLICANT HAS ALREADY DETERMINED THAT THE LISTED ITEM(S) ARE "SUBJECT TO THE EAR". AS DEFINED AND DESCRIBED IN SECTIONS 734.2 THROUGH 734.4 OF THE EAR, THE TERM "SUBJECT TO THE EAR" MEANS, AMONG OTHER THINGS, THAT THE ITEM(S) ARE NOT EXCLUSIVELY CONTROLLED FOR EXPORT OR REEXPORT BY ANOTHER AGENCY OF THE U.S. GOVERNMENT. SEE 15 C.F.R. 734.3(B)(1). THIS COMMODITY CLASSIFICATION DETERMINATION IS NOT A DETERMINATION BY BIS AS TO WHETHER THE LISTED ITEMS ARE "SUBJECT TO THE EAR". THUS, THIS DOCUMENT IS NOT AND MAY NOT BE RELIED UPON AS A U.S. GOVERNMENT DETERMINATION THAT THE ABOVELISTED ITEMS ARE NOT, FOR EXAMPLE, SUBJECT TO THE EXPORT CONTROL JURISDICTION OF THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR) (22 C.F.R. PARTS 120-130), WHICH ARE ADMINISTERED BY THE U.S. DEPARTMENT OF STATE.

THE FOLLOWING INFORMATION IS IN RESPONSE TO YOUR INQUIRY OF February 17, 2010 REQUESTING LICENSE INFORMATION FOR:

COMMODITY ECCN LVS IVL REQUIRED LVS DOLLAR LIMIT FOR COUNTRY

GROUP

FIRING HEAD USED IN OIL AND 1A007B.2

GAS WELLS TO FIRE TUBING AND

CASING CUTTERS, HEAVY METAL

CASING CONTAINING ONE EXPLODING

BRIDGEWIRE DETONATOR (1.11 GRAMS

EXPLOSIVE WEIGHT, MAXIMUM) AND

AN EXPLODING BRIDGEWIRE DETONATOR

FIRESET.

PX1-TC900

COMMENTS FROM LICENSING OFFICER(S):

ITEMS OTHERWISE ELIGIBLE FOR EXPORT OR REEXPORT UNDER A LICENSE EXCEPTION OR NLR (NO LICENSE REQUIRED) AND USED IN THE DESIGN, DEVELOPMENT, PRODUCTION OR USE OF NUCLEAR, CHEMICAL OR BIOLOGICAL WEAPONS OR MISSILES REQUIRE A LICENSE FOR EXPORT OR REEXPORT AS PROVIDED IN PART 744 OF THE EXPORT ADMINISTRATION REGULATIONS (EAR).

DESTINATIONS REQUIRING A LICENSE

SEE THE COMMERCE COUNTRY CHART (SUPPLEMENT NO. 1 TO PART 738 OF THE EAR) TO DETERMINE WHICH COUNTRIES REQUIRE A LICENSE. USE THE COUNTRY CHART COLUMN INFORMATION GIVEN ON THIS FORM IN CONJUNCTION WITH THE COUNTRY CHART TO DETERMINE THE LICENSING REQUIREMENTS FOR YOUR PARTICULAR ITEMS. FOR ITEMS CLASSIFIED EAR99, SEE PART 746 OF THE EAR TO DETERMINE THE LICENSING REQUIREMENTS.

APPLICATIONS FOR EXPORT MUST BE SUBMITTED ON FORM BIS-748P MULTIPURPOSE APPLICATION. THESE FORMS MAY BE OBTAINED BY CALLING (202) 482-3332 OR REQUESTING DIRECTLY ON THE BIS INTERNET WEB SITE. ASSISTANCE IN FILLING OUT THE FORM, OR ANY ASPECT OF EXPORTING, IS PROVIDED BY THE EXPORT COUNSELING DIVISION IN WASHINGTON, D.C. AT (202) 482-4811 OR THE WESTERN REGIONAL OFFICE IN NEWPORT BEACH, CALIFORNIA AT (714) 660-0144.

LICENSE EXCEPTIONS

BE AWARE THAT THE LICENSING REQUIREMENTS FOR SOME DESTINATIONS MAY BE OVERCOME BY ANY LICENSE EXCEPTION FOR WHICH YOUR ITEMS QUALIFY. SEE PART 740 OF EAR FOR INFORMATION ON LICENSE EXCEPTIONS. THE LICENSE AVAILABLE COLUMN ON THIS FORM LISTS ONLY THOSE LICENSE EXCEPTIONS OF THE SET GBS, CIV, CTP, TSR WHICH ARE APPLICABLE TO YOUR ITEMS. OTHER LICENSE EXCEPTIONS MAY APPLY, DEPENDING UPON THE CIRCUMSTANCES OF YOUR INTENDED TRANSACTION.

EXPORT CONTROL CLASSIFICATION NUMBERING SYSTEM (ECCN)

THE ECCN NUMBERING SYSTEM IS FOUND IN THE COMMERCE CONTROL LIST (CCL) PART 774 OF THE EAR. THE CCL IS A COMPREHENSIVE LIST THAT IDENTIFIES ALL ITEMS CONTROLLED AND LICENSED BY COMMERCE. WITHIN THE CCL, ENTRIES ARE IDENTIFIED BY AN ECCN. EACH ENTRY SPECIFIES THE LICENSE REQUIREMENTS FOR THE ITEM AND THE REASON(S) FOR CONTROL. PLEASE CONSULT PARTS 738 AND 774 OF THE EAR FOR SPECIFIC INFORMATION ON ECCNS.

SHIPPERS EXPORT DECLARATION (SED)

WHEN AN EXPORT IS MADE, IT IS NECESSARY FOR THE EXPORTER TO SHOW ON THE SHIPPERS EXPORT DECLARATION (FORM 7525-V) IN BLOCK 27 EITHER THE LICENSE NUMBER, THE APPLICABLE LICENS EXCEPTION SYMBOL OR THE SYMBOL NLR. FORM 7525-V IS AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE OF WASHINGTON, D.C. 20402, AND FROM EXPORT ADMINISTRATION DISTRICT OFFICES (U.S. DEPT. OF COMMERCE).

FOR INFORMATION CONCERNING THIS CLASSIFICATION CONTACT NAOMI FOSTER

PHONE #: 202-482-2954

BRIAN BAKER

DIVISION DIRECTOR

BIS/EA/STC/EL