

Source Production & Equipment Co., Inc.
Letter of May 11, 2017

Exhibit A

See your calculator strap here

STAPLE DOCUMENTS ABOVE PERFORATION

Line-up here

023-79423116

023-79423116

| | | | | | |
|--|--------------------------|---|----------------------------|---|-------------------|
| Shipper's Name and Address WORLDWIDE ELECTRONIC CORPORATION 100 BROADWAY NEW YORK, N.Y. 10038 ATTN: AIRWAY DEPT. | | Shipper's Account Number | | Tax Reference Air Waybill FEDER 1000 NEW YORK BLVD MEMPHIS TN 38132 US | |
| Consignee's Name and Address JPL 11701 N. 19th St Phoenix Phoenix AZ 85021 | | Consignee's Account Number | | Dates 1, 2 and 3 of this Air Waybill are original and have the same validity. It is agreed that the goods described herein are accepted in accordance with order and conditions stated on the reverse hereof for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER CARRIER INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIABILITY OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required. | |
| Issuing Carrier Agent Name and City WORLDWIDE ELECTRONIC NEW YORK, N.Y. | | Issuing Information | | | |
| Agents IATA Code WORLDWIDE | | Agent No. | | Reference Number | |
| Report of Departure (Addr. of First Carrier and Requested Routing) MEMPHIS TO PHOENIX AIR | | Optional Shipping Information | | Reference Number | |
| To: AMEX | | By Post Office | | Subject Carriers | |
| Agent of Destination 11701 N. 19th St Phoenix | | Requested Flight/Date PHOENIX | | Amount of Insurance XXX | |
| Routing Information MEMPHIS TO PHOENIX AIRWAY DEPT. NEW YORK, N.Y. PER AIRWAY DEPT. NEW YORK, N.Y. | | Insurance - It covers other insurances, and such insurance as requested in accordance with the conditions listed, indicate amount to be insured in Agent's office in the "Amount of Insurance" | | Declares Value for Carriage USD Declares Value for Customs USD 100.00 CBP | |
| These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Ultimate destination: | | Diversions contrary to U.S. law prohibited. | | 501 R | |
| No. of Pieces 1 | Gross Weight 46.00 kg | Rate Class Commodity Class No. | Chargeable Weight 46.00 | Rate Charge 2.00 | Total 1,375.40 |
| Nature and Quantity of Goods (incl. Dimensions or Volume) 1000 NEW YORK BLVD | | | | | |
| Prepaid | | Weight Charge | | Collected | |
| 1,375.40 | | Volume Charge | | Other Charges | |
| 0.00 | | 0.00 | | 1,375.40 | |
| Total Other Charges Due Agent | | Shipper certifies that the documents on the face hereof are correct and that the latter do not constitute any part of the consignment and contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. | | | |
| Total Other Charges Due Carrier | | WORLDWIDE ELECTRONIC CORPORATION | | | |
| Total Prepaid | | Total Collected | | Signature of Shipper or its Agent <i>[Signature]</i> | |
| 1,375.40 | | 0.00 | | Signature of Issuing Carrier or its Agent <i>[Signature]</i> | |
| Carrier's Commission Rates | | CC Charges in Decl. Currency | | Execution of Goods at origin | |
| 0.00 | | 0.00 | | Signature of Issuing Carrier or its Agent 023-79423116 | |
| Per Car rule liability at destination | | Charges at destination | | Total Collected Charges | |

Shippers Declaration of Dangerous Goods

Shipper GILLIGAN ENGINEERING SERVICES
 ANDREWS HOUSE, PRINCESS WAY
 LOW PRUDHOE IND. EST., PRUDHOE
 NORTHUMBERLAND
 United Kingdom NE42 6HB

Air Waybill No.
 Page 1 of 5 Pages
 Shipper's Reference Number

Consignee
 SPEC
 113 TEAL STREET
 ST ROSE
 NEW ORLEANS, LOUISIANA
 USA 70087

Andrews House, Princess
 Way, Low Prudhoe Ind Est
 Prudhoe, Northumberland
 NE42 6HB, UK



Tel 01661 836886
 Fax 01661 836886

Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

Transport Details

This shipment is within the limitations prescribed for: (delete non applicable)
 Airport of Departure **STANSTED**

~~HAZARDOUS~~ CARGO AIRCRAFT ONLY

Airport of Destination **NEW ORLEANS**

Shipment type: (delete non-applicable)

~~NON-RADIOACTIVE~~ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

| Dangerous Goods Identification | | Class or Division (Subsidiary Risk) | Packing Group | Quantity and type of packaging | Packing Inst | Authorization |
|--------------------------------|---|-------------------------------------|---------------|---|---|--|
| UN No. | Proper Shipping Name | | | | | |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192 x 417.75 GBq, Special Form, Selenium 75 x 163.3 GBq, Special Form, All packed in one Type B(U) Package. | II Yellow, TI of 0.1, of dimensions 39 x 39 x 55 cms. | USA/0608/S-96 Revision 8 PL/0017/S-05 Revision 1 USA/0392/S-96 Revision 11 CDN/2091/B(U)-96 Revision 1 Certificates Attached |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 619.07 GBq. | II Yellow, TI of 0.1, of dimensions 39 x 39 x 55 cms. | USA/0608/S-96 Revision 8 B/012/S-96 Revision 11 PL/0024/S-12 Revision 1 CDN/2091/B(U)-96 Revision 1 Certificates Attached |

Additional Handling Information

EMERGENCY CONTACT: Michael Todd; Tel: 0044 1661 836886, 0044 7900 985 882

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

S Henderson
 Customer Services

Place and Date

Prudhoe, 10-Apr-17

Signature
 (see warning above)

I declare that all of the applicable air transport requirements have been met.

Shippers Declaration of Dangerous Goods

Shipper GILLIGAN ENGINEERING SERVICES
 ANDREWS HOUSE, PRINCESS WAY
 LOW PRUDHOE IND. EST., PRUDHOE
 NORTHUMBERLAND
 United Kingdom NE42 6HB

Air Waybill No.
 Page 3 of 5 Pages
 Shipper's Reference Number

Consignee
 SPEC
 113 TEAL STREET
 ST ROSE
 NEW ORLEANS, LOUISIANA
 USA 70087



Andrews House, Princess
 Way, Low Prudhoe Ind Est
 Prudhoe, Northumberland
 NE42 6HB, UK
 Tel 01661 836886
 Fax 01661 836866

Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

Transport Details

This shipment is within the limitations prescribed for: (delete non applicable)

Airport of Departure
 STANSTED

~~CARGO AIRCRAFT ONLY~~

Airport of Destination
 NEW ORLEANS

Shipment type: (delete non-applicable)
~~NON-RADIOACTIVE~~ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

| Dangerous Goods Identification | Class or Division (Subsidiary Risk) | Packing Group | Quantity and type of packaging | Packing Inst | Authorization |
|---|-------------------------------------|---------------|--|---|---|
| UN 2916 RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 201.62 GBq. | II Yellow, TI of 0.1, of dimensions 40 x 45 x 53 cms. | USA/0608/S-96 Revision 8 USA/0392/S-96 Revision 11 USA/9036/B(U)-96 Certificates Attached |
| UN 2916 RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 78.51 GBq. | II Yellow, TI of 0.1, of dimensions 40 x 45 x 53 cms. | B/012/S-96 Revision 11 USA/0608/S-96 Revision 8 USA/9036/B(U)-96 Revision 16 Certificates Attached |

Additional Handling Information

EMERGENCY CONTACT: Michael Todd; Tel: 0044 1661 836886, 0044 7900 985 882

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

S Henderson
 Customer Services

Place and Date

Prudhoe, 10-Apr-17

Signature

(see warning above)

I declare that all of the applicable air transport requirements have been met.

Shippers Declaration of Dangerous Goods

Shipper GILLIGAN ENGINEERING SERVICES
 ANDREWS HOUSE, PRINCESS WAY
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 NORTHUMBERLAND
 United Kingdom NE42 6HB

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 Page 4 of 5 Pages
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WARNING

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Transport Details

This shipment is within the limitations prescribed for: (delete non applicable)
 Airport of Departure **STANSTED**



Airport of Destination **NEW ORLEANS**

Shipment type: (delete non-applicable)
~~NON-RADIOACTIVE~~ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

| Dangerous Goods Identification | | Class or Division (Subsidiary Risk) | Packing Group | Quantity and type of packaging | Packing Inst | Authorization |
|--------------------------------|---|-------------------------------------|---------------|--|---|--|
| UN No. | Proper Shipping Name | | | | | |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 155.90 GBq. | II Yellow, T1 of 0.1, of dimensions 40 x 45 x 53 cms. | USA/0608/S-96 Revision 8 USA/9036/B(U)-96 Revision 16 Certificates Attached |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 74.57 GBq. | II Yellow, T1 of 0.1, of dimensions 40 x 45 x 53 cms. | USA/0608/S-96 Revision 8 PL/0024/S-12 Revision 1 USA/9036/B(U)-96 Revision 16 Certificates Attached |

Additional Handling Information

EMERGENCY CONTACT: Michael Todd: Tel: 0044 1661 836886, 0044 7900 985 882

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory
 S Henderson
 Customer Services

Place and Date
 Prudhoe, 10-Apr-17

Signature
 (see warning above)



I declare that all of the applicable air transport requirements have been met.

Shippers Declaration of Dangerous Goods

Shipper GILLIGAN ENGINEERING SERVICES
 ANDREWS HOUSE, PRINCESS WAY
 LOW PRUDHOE IND. EST., PRUDHOE
 NORTHUMBERLAND
 United Kingdom NE42 6HB

Air Waybill No.
 Page 5 of 5 Pages
 Shipper's Reference Number

Consignee
 SPEC
 113 TEAL STREET
 ST ROSE
 NEW ORLEANS, LOUISIANA
 USA 70087



Andrews House, Princess
 Way, Low Prudhoe Ind Est
 Prudhoe, Northumberland
 NE42 6HB, UK
 Tel 01661 836886
 Fax 01661 836866

Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

| Transport Details | |
|---|---|
| This shipment is within the limitations prescribed for: (delete non applicable) | Airport of Departure STANSTED |
| CARGO AIRCRAFT ONLY | |
| Airport of Destination | NEW ORLEANS |

Shipment type: (delete non-applicable)
~~NON-RADIOACTIVE~~ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

| Dangerous Goods Identification | | | | Quantity and type of packaging | Packing Inst | Authorization |
|--------------------------------|---|-------------------------------------|---------------|---|---|---|
| UN No. | Proper Shipping Name | Class or Division (Subsidiary Risk) | Packing Group | | | |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 91.76 GBq. | II Yellow, TI of 0.1, of dimensions 40 x 45 x 53 cms. | USA/0808/S-96 Revision 8 USA/9036/B(U)-96 Revision 16 Certificates Attached |

Additional Handling Information

EMERGENCY CONTACT: Michael Todd; Tel: 0044 1661 836886, 0044 7900 985 882

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Name/Title of Signatory

S Henderson
 Customer Services

Place and Date

Prudhoe, 10-Apr-17

Signature
 (see warning above)

I declare that all of the applicable air transport requirements have been met.

Shippers Declaration of Dangerous Goods

Shipper **GILLIGAN ENGINEERING SERVICES**
ANDREWS HOUSE, PRINCESS WAY
LOW PRUDHOE IND. EST., PRUDHOE
NORTHUMBERLAND
 United Kingdom **NE42 6HB**

Air Waybill No.
 Page 2 of 5 Pages
 Shipper's Reference Number


Consignee
SPEC
113 TEAL STREET
ST ROSE
NEW ORLEANS, LOUISIANA
 USA **70087**

gilliganengineering
 Andrews House, Princess Way, Low Prudhoe Ind Est Prudhoe, Northumberland NE42 6HB, UK
 Tel 01661 836886
 Fax 01661 836886

Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

| | |
|--|---|
| Transport Details | |
| This shipment is within the limitations prescribed for: (delete non applicable) | Airport of Departure STANSTED |
|  CARGO AIRCRAFT ONLY | |
| Airport of Destination | NEW ORLEANS |

Shipment type: (delete non-applicable)
~~NON-RADIOACTIVE~~ **RADIOACTIVE**

NATURE AND QUANTITY OF DANGEROUS GOODS

| Dangerous Goods Identification | | Class or Division (Subsidiary Risk) | Packing Group | Quantity and type of packaging | Packing Inst | Authorization |
|--------------------------------|---|-------------------------------------|---------------|--|---|--|
| UN No. | Proper Shipping Name | | | | | |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 714.38 GBq. | II Yellow, TI of 0.1, of dimensions 39 x 39 x 55 cms. | USA/0608/S-96 Revision 8 CDN/2091/B(U)-96 Revision 1 Certificates Attached |
| UN 2916 | RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE | 7 | | Iridium 192, Special Form, Packed in one Type B(U) Package x 124.73 GBq. | II Yellow, TI of 0.1, of dimensions 40 x 45 x 53 cms. | USA/0392/S-96 Revision 11 USA/9036/B(U)-96 Revision 16 Certificates Attached |

Additional Handling Information

EMERGENCY CONTACT: Michael Todd, Tel: 0044 1661 836886, 0044 7900 985 882

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Name/Title of Signatory

S Henderson
 Customer Services

Place and Date

Prudhoe, 10-Apr-17

Signature

(see warning above)



I declare that all of the applicable air transport requirements have been met.

Andrews House
Princess Way
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gilligan



Consignee

SPEC
113 TEAL STREET
ST ROSE
NEW ORLEANS, LOUISIANA
USA
70087

Commercial Invoice

GES6121904

Page 1 of 2

Date

10/04/2017

Work Number

Customer Reference

| Item | Product and description | Value |
|------|---|---|
| 1 | Return of transport containers and spent sources | GBP |
| 2 | Aspect - 10 Channel - 0018; #Iridium 192 Sources: XD2703, HAA141, XF1508, TL2101, S070, XF1509, XE1810, XF1507 & S517; Selenium 75 Source: 0116-S39 | 1 Steel Container of 39 dia x 55 high cms dimensions of 130 Kgs in weight 50 GBP |
| 3 | Aspect - 10 Channel - 021; #Iridium 192 Sources: XF1514, AP643, HCA255, XH1204, AR379, XH0213, XF1512, XH1206, XG1107 & 1015-WJ0904 | 1 Steel Container of 39 dia x 55 high cms dimensions of 130 Kgs in weight 50 GBP |
| 4 | Aspect - 10 Channel - 022; #Iridium 192 Sources: 0116-B678, B688, B354, B-680, B675, B-707 & B683 | 1 Steel Container of 39 dia x 55 high cms dimensions of 130 Kgs in weight 50 GBP |
| 5 | SPEC C-1 - 85; #Iridium 192 Sources: T241 & M480 | 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight 50 GBP |
| 6 | SPEC C-1 - 16; #Iridium 192 Sources: XF1510 & S696 | 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight 50 GBP |
| 7 | SPEC C-1 - 69; #Iridium 192 Sources: AM941 & XH0214 | 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight 50 GBP |
| 8 | SPEC C-1 - 81; #Iridium 192 Sources: XB2312 & XF1513 | 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight 50 GBP |
| 9 | SPEC C-1 - 61; #Iridium 192 Sources: XD0411 & HCA288 | 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight 50 GBP |

19 April 2017

Page 1 of 2

Andrews House
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Consignee

SPEC
113 TEAL STREET
ST ROSE
NEW ORLEANS, LOUISIANA
USA
70087

Commercial Invoice

GES6121904

Page 2 of 2

Date

10/04/2017

Work Number

Customer Reference

| <i>Item</i> | <i>Product and description</i> | <i>Value</i> |
|-------------|--|--------------|
| 10 | SPEC C-1 - 46; #Iridium 192 Sources: XE1817 & XH1202 1 Steel Container of 40 x 45 x 53 cms dimensions of 45 Kgs in weight | 50 GBP |

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engineering

Andrews House
Princess Way
Low Prudhoe Industrial Estate
Prudhoe
Northumberland
NE42 6HB

19 April 2017

Page 2 of 2

Andrews House, Princess Way
 Low Prudhoe Industrial Estate, Prudhoe
 Northumberland, NE42 6HB, UK

gilligan

T: +44 (0)1661 836 866

F: +44 (0)1661 836 866

E: sales@gilligan-engineering.co.uk

Company: **SPEC**

Source Serial: **HCA288**

Half Life (days): **73.83**

Isotope: **Iridium 192**

On Holder: **PL-1290**

Capsule Type: **HC**

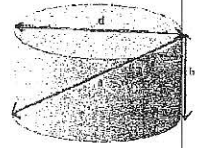
ISO: **C64344**

Special Form: **PL/0024/S-12**

Physical Size: **2 x 1 mm Cylindrical**

Diameter: 2mm

Height: 1mm



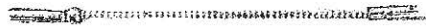
Active Dimension: 2.24mm

Isotope Manufactured by: NATIONAL CENTRE FOR NUCLEAR RESEARCH, RADIOISOTOPE CENTRE POLATOM, 7 ANDRZEJA SOLTANA STR., 05-400 OTWOCK, POLAND,

Decay Table (Ci)

| | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28-Apr-17 | 0.43 | 0.42 | 0.42 | 0.41 | 0.41 | 0.41 | 0.40 | 0.40 | 0.39 | 0.39 | 0.39 | 0.38 | 0.38 | 0.38 |
| 12-May-17 | 0.37 | 0.37 | 0.37 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.34 | 0.34 | 0.34 | 0.33 | 0.33 |
| 26-May-17 | 0.33 | 0.32 | 0.32 | 0.32 | 0.31 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 |
| 09-Jun-17 | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.25 |
| 23-Jun-17 | 0.25 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 |
| 07-Jul-17 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 21-Jul-17 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 |
| 04-Aug-17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 |
| 18-Aug-17 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.13 |
| 01-Sep-17 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 15-Sep-17 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 29-Sep-17 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| 13-Oct-17 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 27-Oct-17 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 10-Nov-17 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 24-Nov-17 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 08-Dec-17 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 22-Dec-17 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 05-Jan-18 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 19-Jan-18 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 02-Feb-18 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 16-Feb-18 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 02-Mar-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 16-Mar-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 30-Mar-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 13-Apr-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 27-Apr-18 | 0.01 | 0.01 | | | | | | | | | | | | |

HASS Pictures:



Certificate For Sealed Radioactive Source

| | | | |
|-------------------------------|---------------------|---|---------------|
| Reason for test: | Manufacturer's Test | Responsible for Quality Control | |
| Test method: | Immersion Test | Manufacturers leak test certificate reference: | Date of Test: |
| Size Control (Gauge) | Accepted | DP2-1-102/0115/16 | 26-Jan-16 |
| Visual Inspection | Accepted | | |
| Free of Surface Contamination | Accepted | We certify that the aforementioned source is in ----- with the following ----- <i>R SW</i> | |

Holder

Special Form

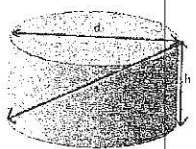
Andrews House, Princess Way
 Low Prudhoe Industrial Estate, Prudhoe
 Northumberland, NE42 6HB, UK

gilligan

T: +44 (0)1661 836 886

F: +44 (0)1661 836 866

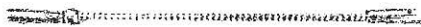
E: sales@gilligan-engineering.co.uk

| | | | |
|--|-----------------------------------|--|---|
| Company: SPEC | | Physical Size: 2 x 1.2 mm Cylindrical | |
| Source Serial: HCA255 | Capsule Type: HC | Diameter: 2mm |  |
| Half Life (days): 73.83 | ISO: C64344 | Height: 1.2mm | |
| Isotope: Iridium 192 | Special Form: PL/0024/S-12 | | |
| On Holder: PL-1287 | | Active Dimension: 2.33mm | |
| <small>Isotope Manufactured by: NATIONAL CENTRE FOR NUCLEAR RESEARCH, RADIOISOTOPE CENTRE POLATOM, 7 ANDRZEJA SOLTANA STR., 05-400 OTWOCK, POLAND.</small> | | | |

Decay Table (Ci)

| | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28-Apr-17 | 0.31 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 |
| 12-May-17 | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 |
| 26-May-17 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 |
| 09-Jun-17 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 |
| 23-Jun-17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 |
| 07-Jul-17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 |
| 21-Jul-17 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 |
| 04-Aug-17 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 18-Aug-17 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 |
| 01-Sep-17 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 |
| 15-Sep-17 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| 29-Sep-17 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 |
| 13-Oct-17 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 27-Oct-17 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 10-Nov-17 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 24-Nov-17 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 08-Dec-17 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 22-Dec-17 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 05-Jan-18 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 19-Jan-18 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 02-Feb-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 16-Feb-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 02-Mar-18 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 |
| 16-Mar-18 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 30-Mar-18 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 13-Apr-18 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 27-Apr-18 | 0.01 | 0.01 | | | | | | | | | | | | |

HASS Pictures:



| Certificate For Sealed Radioactive Source | | Holder |
|--|---|-------------------------|
| Reason for test: | Manufacturer's Test | Special Form |
| Test method: | Immersion Test | |
| Size Control (Gauge) | Accepted | |
| Visual Inspection | Accepted | |
| Free of Surface Contamination | Accepted | |
| | Responsible for Quality Control | |
| | Manufacturers leak test certificate reference: DP2-1-102/2184/15 | Date of Test: 25-Nov-15 |
| | We certify that the aforementioned source is in compliance with the following norms: <i>R. S.</i> | |

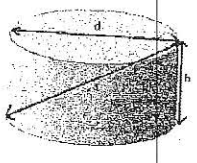
Andrews House, Princess Way
 Low Prudhoe Industrial Estate, Prudhoe
 Northumberland, NE42 6HB, UK

gilligan engineering

T: +44 (0)1661 836 886

F: +44 (0)1661 836 866

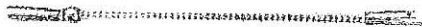
E: sales@gilligan-engineering.co.uk

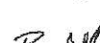
| | | | |
|--|---------------------------------|---|------------------------------|
| Company: SPEC | | Physical Size: 1.2 x 1.6 mm Cylindrical | |
| Source Serial: AR379 | Capsule Type: IR-192-G6 |  | Active Dimension: 2mm |
| Half Life (days): 73.83 | ISO: 99/C 64545 | | |
| Isotope: Iridium 192 | Special Form: B/012/S-96 | | |
| On Holder: PS AR379 2 | | | |
| <i>Isotope Manufactured by: NTP RADIOISOTOPES (EUROPE) S.A., ZONING INDUSTRIAL, B6220, FLEURUS, BELGIUM,</i> | | | |

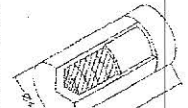
Decay Table (Ci)

| | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28-Apr-17 | 2.43 | 2.40 | 2.38 | 2.36 | 2.34 | 2.32 | 2.29 | 2.27 | 2.25 | 2.23 | 2.21 | 2.19 | 2.17 | 2.15 |
| 12-May-17 | 2.13 | 2.11 | 2.09 | 2.07 | 2.05 | 2.03 | 2.01 | 1.99 | 1.97 | 1.96 | 1.94 | 1.92 | 1.90 | 1.88 |
| 26-May-17 | 1.87 | 1.85 | 1.83 | 1.81 | 1.80 | 1.78 | 1.76 | 1.75 | 1.73 | 1.71 | 1.70 | 1.68 | 1.67 | 1.65 |
| 09-Jun-17 | 1.64 | 1.62 | 1.61 | 1.59 | 1.58 | 1.56 | 1.55 | 1.53 | 1.52 | 1.50 | 1.49 | 1.48 | 1.46 | 1.45 |
| 23-Jun-17 | 1.43 | 1.42 | 1.41 | 1.39 | 1.38 | 1.37 | 1.36 | 1.34 | 1.33 | 1.32 | 1.31 | 1.29 | 1.28 | 1.27 |
| 07-Jul-17 | 1.26 | 1.25 | 1.23 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.17 | 1.16 | 1.15 | 1.13 | 1.12 | 1.11 |
| 21-Jul-17 | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | 0.99 | 0.99 | 0.98 |
| 04-Aug-17 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.86 |
| 18-Aug-17 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.81 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.76 | 0.76 | 0.75 |
| 01-Sep-17 | 0.74 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 | 0.70 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | 0.66 | 0.66 |
| 15-Sep-17 | 0.65 | 0.65 | 0.64 | 0.63 | 0.63 | 0.62 | 0.62 | 0.61 | 0.60 | 0.60 | 0.59 | 0.59 | 0.58 | 0.58 |
| 29-Sep-17 | 0.57 | 0.57 | 0.56 | 0.56 | 0.55 | 0.55 | 0.54 | 0.54 | 0.53 | 0.53 | 0.52 | 0.52 | 0.51 | 0.51 |
| 13-Oct-17 | 0.50 | 0.50 | 0.49 | 0.49 | 0.48 | 0.48 | 0.47 | 0.47 | 0.47 | 0.46 | 0.46 | 0.45 | 0.45 | 0.44 |
| 27-Oct-17 | 0.44 | 0.44 | 0.43 | 0.43 | 0.42 | 0.42 | 0.42 | 0.41 | 0.41 | 0.40 | 0.40 | 0.40 | 0.39 | 0.39 |
| 10-Nov-17 | 0.39 | 0.38 | 0.38 | 0.37 | 0.37 | 0.37 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.34 | 0.34 |
| 24-Nov-17 | 0.34 | 0.33 | 0.33 | 0.33 | 0.33 | 0.32 | 0.32 | 0.32 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.30 |
| 08-Dec-17 | 0.30 | 0.29 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 |
| 22-Dec-17 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 |
| 05-Jan-18 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 |
| 19-Jan-18 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| 02-Feb-18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| 16-Feb-18 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| 02-Mar-18 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| 16-Mar-18 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 |
| 30-Mar-18 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 |
| 13-Apr-18 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 27-Apr-18 | 0.08 | 0.08 | | | | | | | | | | | | |

HASS Pictures:



| Certificate For Sealed Radioactive Source | | Holder |
|--|---------------------|---|
| Reason for test: | Manufacturer's Test | Special Form |
| Test method: | Immersion Test | |
| Size Control (Gauge) | Accepted | |
| Visual Inspection | Accepted | |
| Free of Surface Contamination | Accepted | |
| Responsible for Quality Control | | |
| Manufacturers leak test certificate reference: | | Date of Test: |
| 761446-2-1-1 | | 29-Sep-16 |
| We certify that the aforementioned source is in | |  |



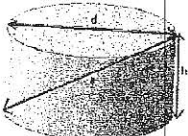
Andrews House, Princess Way
 Low Prudhoe Industrial Estate, Prudhoe
 Northumberland, NE42 6HB, UK

gilligan

T: +44 (0)1661 836 886

F: +44 (0)1661 836 866

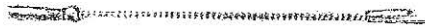
E: sales@gilligan-engineering.co.uk

| | | | |
|--|---------------------------------|---|---|
| Company: SPEC | | Physical Size: 2 x 1.65 mm Cylindrical | |
| Source Serial: AP643 | Capsule Type: IR-192-G6 | Diameter: 2mm |  |
| Half Life (days): 73.83 | ISO: 99/C 64545 | Height: 1.65mm | |
| Isotope: Iridium 192 | Special Form: B/012/S-96 | | |
| On Holder: AP643 | | Active Dimension: 2.59mm | |
| <i>Isotope Manufactured by: NTP RADIOISOTOPES (EUROPE) S.A., ZONING INDUSTRIAL, B6220, FLEURUS, BELGIUM,</i> | | | |

Decay Table (Ci)

| | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 28-Apr-17 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 |
| 12-May-17 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.81 |
| 26-May-17 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.72 | 0.71 |
| 09-Jun-17 | 0.70 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | 0.66 | 0.66 | 0.65 | 0.65 | 0.64 | 0.63 | 0.63 | 0.62 |
| 23-Jun-17 | 0.62 | 0.61 | 0.61 | 0.60 | 0.59 | 0.59 | 0.58 | 0.58 | 0.57 | 0.57 | 0.56 | 0.56 | 0.55 | 0.55 |
| 07-Jul-17 | 0.54 | 0.54 | 0.53 | 0.53 | 0.52 | 0.52 | 0.51 | 0.51 | 0.50 | 0.50 | 0.49 | 0.49 | 0.48 | 0.48 |
| 21-Jul-17 | 0.47 | 0.47 | 0.47 | 0.46 | 0.46 | 0.45 | 0.45 | 0.44 | 0.44 | 0.44 | 0.43 | 0.43 | 0.42 | 0.42 |
| 04-Aug-17 | 0.42 | 0.41 | 0.41 | 0.40 | 0.40 | 0.40 | 0.39 | 0.39 | 0.39 | 0.38 | 0.38 | 0.37 | 0.37 | 0.37 |
| 18-Aug-17 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.34 | 0.34 | 0.34 | 0.33 | 0.33 | 0.33 | 0.33 | 0.32 |
| 01-Sep-17 | 0.32 | 0.32 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 | 0.29 | 0.28 |
| 15-Sep-17 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 |
| 29-Sep-17 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 |
| 13-Oct-17 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 |
| 27-Oct-17 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| 10-Nov-17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| 24-Nov-17 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| 08-Dec-17 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 |
| 22-Dec-17 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 05-Jan-18 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| 19-Jan-18 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| 02-Feb-18 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 16-Feb-18 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 02-Mar-18 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| 16-Mar-18 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 |
| 30-Mar-18 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 13-Apr-18 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 27-Apr-18 | 0.03 | 0.03 | | | | | | | | | | | 0.03 | 0.03 |

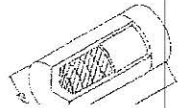
HASS Pictures:



| Certificate For Sealed Radioactive Source | | |
|--|---------------------|--|
| Reason for test: | Manufacturer's Test | Responsible for Quality Control |
| Test method: | Immersion Test | Manufacturers leak test certificate reference: |
| Size Control (Gauge) | Accepted | 760998 |
| Visual Inspection | Accepted | Date of Test: |
| Free of Surface Contamination | Accepted | 06-Apr-16 |
| We certify that the aforementioned source is in | | <i>[Signature]</i> |

Holder

Special Form



Andrews House, Princess Way
 Low Prudhoe Industrial Estate, Prudhoe
 Northumberland, NE42 6HB, UK

gilligan engineering

T: +44 (0)1661 836 886

F: +44 (0)1661 836 866

E: sales@gilligan-engineering.co.uk

Company: **SPEC**

Source Serial: **HAA141**

Half Life (days): **73.83**

Isotope: **Iridium 192**

On Holder: **5534G**

Capsule Type: **HA**

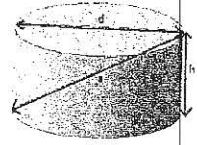
ISO: **C64344**

Special Form: **PL/0017/S-05**

Physical Size: **2 x 0.8 mm Cylindrical**

Diameter: 2mm

Height: 0.8mm



Active Dimension: **2.15mm**

Isotope Manufactured by: NATIONAL CENTRE FOR NUCLEAR RESEARCH, RADIOISOTOPE CENTRE POLATOM, 7 ANDRZEJA SOLTANA STR., 05-400 OTWOCK, POLAND,

Decay Table (Ci)

| | Thu | Fri | Sat | Sun | Mon | Tue | Wed | Thu | Fri | Sat | Sun | Mon | Tue | Wed |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 27-Apr-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11-May-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-May-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 08-Jun-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22-Jun-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06-Jul-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-Jul-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03-Aug-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17-Aug-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31-Aug-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14-Sep-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28-Sep-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12-Oct-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26-Oct-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 09-Nov-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23-Nov-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07-Dec-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21-Dec-17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04-Jan-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18-Jan-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01-Feb-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-Feb-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01-Mar-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-Mar-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29-Mar-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12-Apr-18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26-Apr-18 | 0.00 | 0.00 | | | | | | | | | | | | |

HASS Pictures:

| Certificate For Sealed Radioactive Source | | Responsible for Quality Control | |
|---|---------------------|--|---------------|
| Reason for test: | Manufacturer's Test | | |
| Test method: | Immersion Test | Manufacturers leak test certificate reference: | Date of Test: |
| Size Control (Gauge) | Accepted | DP2-1-102/0481/14 | 26-Feb-14 |
| Visual Inspection | Accepted | | |
| Free of Surface Contamination | Accepted | We certify that the aforementioned source is in compliance with the following norms: | |

Holder
 Special Form

