

(8-93)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5368

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

CPAD Technologies Inc.
66 Slater Street, 6th Floor
Ottawa, Ontario
Canada K1P 5H1

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Coulter Sales
444 Barney's Joy Road
South Dartmouth, Massachusetts
02748-1004 USA

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Al McEachern

TELEPHONE NUMBER

613-230-0609

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY <u>TBD</u> AMOUNT ENCLOSED \$ <u>TBD</u>
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.	

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE Business
Al McEachern, Director, Development

SIGNATURE

Al McEachern

DATE

20 June 96

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
				DATE	

9702270088 961230
PDR RC *
SSD PDR

APPLICATION FOR LICENSE

NRC FORM 313

ITEMS 5 AND 6

GENERAL LICENSE AND DEVICE APPLICATION

5. **RADIOACTIVE MATERIAL: Nickel-63**

The Nickel-63 source is purchased from NRD Static Controls and is registered with the NRC as N1001. The source is 3.3 millicuries in strength and is plated on a nickel substrate 0.008" thick.

The maximum amount that will be possessed at any one time will be 16.5 millicuries.

6. **PURPOSE FOR WHICH THE LICENSED MATERIAL WILL BE USED.**

The Nickel-63 source is used in Ion Mobility Spectrometer (IMS) detectors. These detectors are a component of CPAD's Explosives Detection System, and the Narcotics & Explosives Detection System.

CPAD will be selling these systems in the U.S. upon obtaining the appropriate license.

1.0 APPLICANT

This application is being submitted by CPAD Technologies Inc., a Canadian firm. The device referred to in this application is manufactured by CPAD and will be transferred to the U.S. through the U.S. office under a possession license issued under 32.51.

CPAD is submitting this application for a device review and a general license under provisions 31.5.

Head Office:

CPAD Technologies Inc.
66 Slater Street
Ottawa, Ontario
Canada
K1P 5H1

Contact: Mr. Al McEachern
Director, Business Development

Tel: 613-230-0609
Fax: 613-230-3805

U.S. Office:

Coulter Sales
444 Barney's Joy Road
South Dartmouth, Massachusetts
02748-1004

Contact: Mr. Gordon Coulter

Tel: 508-636-6944
Fax: 508-636-3948

2.0 DEVICE TYPE

The device is intended for use under a general license, specifically 31.5, for the purpose of detecting organic compounds. The device is called an Ion Mobility Spectrometer (IMS) Detector. This device contains a Nickel-63 source.

3.0 MODEL NUMBER

The designated model number for a device containing the Nickel-63 source will be **xxxxx** followed by the serial number **yyyyy**.

i.e. **xxxxx yyyyy**

4.0 OTHER COMPANIES INVOLVED

CPAD Technologies Inc. of Canada purchases the Nickel source from a U.S. firm:

NRD Static Control Products
2937 Alt Boulevard North
Grand Island, NY 14072-1292

5.0 RADIOACTIVE SOURCE MODEL DESIGNATION

The Nickel source purchased from NRD is registered with the NRC as N1001.

6.0 RADIONUCLIDES AND MAXIMUM ACTIVITY

Each device contains a Nickel-63 source of 3.3 millicuries.

7.0 LEAK TEST FREQUENCY

A leak test will be conducted before shipment and a copy of the test results will accompany the system. Follow on leak tests will be conducted every twelve months.

8.0 PRINCIPAL USE CODE

The principal use code is "N." The Nickel-63 is used as an ion generating source for the IMS Detector.

9.0 DESCRIPTION OF THE DEVICE

The device referred to in this application is called an Ion Mobility Spectrometer (IMS). This device is used to detect organic compounds. These compounds are injected into the IMS via a carrier gas (air or nitrogen). Upon entering the IMS, the molecules contained in the carrier gas are ionized by the Nickel-63 source. These ionized molecules then drift down a drift region and are separated according to their mass.

The IMS Detector measures 1.86" in length and 2.5" in diameter. The IMS Detector is then placed inside a metal box measuring 12" in length, 6" in height, and 2" in depth. This box is referred to as the Analytical Unit.

10.0 PURPOSE OR INTENDED USE OF THE DEVICE

It is intended that this device will be used in a number of products manufactured by CPAD for the purpose of detecting organic compounds. CPAD currently manufactures Explosives Detection Systems and Narcotics Detection Systems, which incorporate one or two of the devices referred to in this application. Although these detection systems may change and new products will be introduced, the "device" referred to in this application, which will be used as a component in many of these systems, will not change from the description contained in this application, without an amendment request.

The device is designed to be installed in a fixed location within the system; it does not move.

11.0 RADIATION SAFETY FEATURES OF THE DEVICE

In this particular case, the safety concerns revolve around the Nickel-63 source. Specifically: its mounting, access to the source, shielding, materials of construction, its ability to withstand harsh conditions with no external radiation leaks, and the proper labelling of the device.

11.1 Method of Construction

Materials for construction are aluminium and teflon, with all screws and bolts being stainless steel. The specific materials for each component is indicated in the appropriate drawings.

Figure A (drawing number MA-A-077) depicts the final assembly of the IMS Detector. The Detector is then installed inside the Analytical Unit shown in Figure B (drawing number MA-A-078).

11.2 General Description

The IMS is composed of:

- i) The source holder sub-assembly. Drawing number IM-B-035.
- ii) The source cover sub-assembly. Drawing number IM-B-037
- iii) The base. Drawing number IM-B-001.
- iv) The source base. Drawing number IM-0-002.

The source holder sub-assembly is attached to the source base, then the base is slid over the source holder sub-assembly and firmly secured to the source base enclosing the entire IMS. See drawing number IM-B-040.

11.3 Method of Assembly

a. Source Holder Sub-Assembly

The assembly of the source is depicted in drawing number IM-0-035. A breakdown of the specific items found in this drawing are as follows:

Item # 3 reference drawing number IM-B-020

Item # 4 reference drawing number IM-B-022

Item # 5 reference drawing number IM-B-023

Item # 6 reference drawing number IM-B-024

Item # 7 stainless steel screen

Item # 10 **Nickel-63 source**

Method of assembly: Reference drawing number IM-B-035.

- i) The Nickel-63 source, item # 10 is pressed into the back of the recessed hole located in the centre of item # 4, which is constructed of aluminium.
- ii) Item # 4 containing the Nickel-63 source is placed into item # 3, which is constructed of teflon.
- iii) Item # 5 is then placed on the front of item # 4.
- iv) Item # 7, the stainless steel screen, is then placed in the centre of the front face on item # 5.
- v) Item # 6, constructed of aluminium, is used to secure the Nickel-63 source firmly into item # 3. Item # 6 fits tightly into item # 3, and is secured by two stainless steel bolts, item # 15, and the nuts and washers item #s 1, 16, and 17. This process sandwiches the Nickel-63 source into a securely tight enclosure and does not allow any movement.

b. Assembly of the Source Holder Sub-assembly to the Source Base.

- i) The source base is constructed from aluminium bar stock as per drawing number IM-B-002.
- ii) The completed source holder sub-assembly is then attached to the source base. This is accomplished by inserting the source holder sub-assembly item # 1 on drawing number IM-B-036 at the teflon end, into the source base item # 2 drawing number IM-B-036. These two components are then screwed together using the screws designated as item # 5 on the drawing.

c. Assembly of the Base to the Source Base.

- i) The base is constructed from aluminium bar stock as per drawing number IM-B-001.
- ii) The base is then secured to the source base as depicted in drawing number IM-B-040 with four stainless steel screws item # 7.

The completed IMS Detector showing the overall dimensions can be seen in Figure A (drawing number MA-A-077).

d. Assembly of IMS Detector in the Analytical Unit.

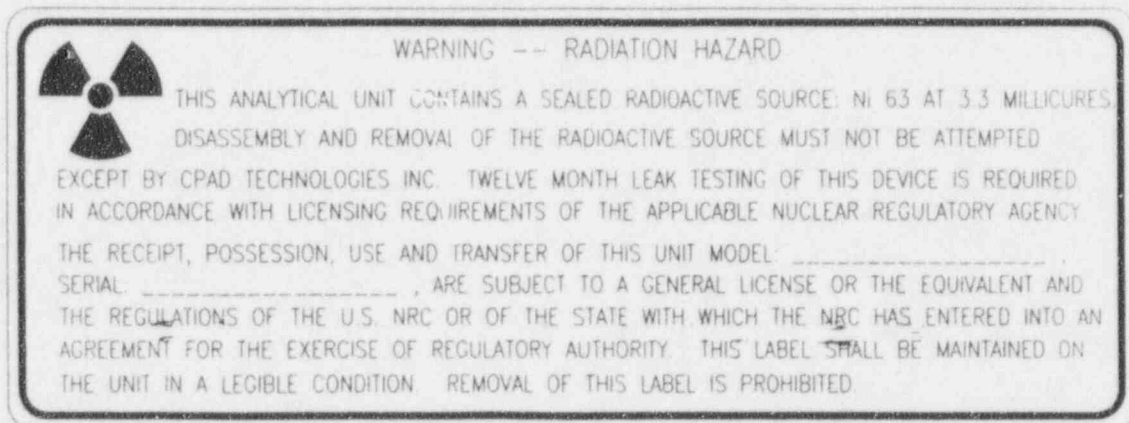
The completed IMS Detector is securely fastened inside the Analytical Unit, sandwiched between the two sides and screwed to the box using three stainless steel screws as depicted in Figure B (drawing number MA-A-078).

The method and materials of construction outlined above allows for optimal security and safety of the Nickel-63 source by:

- i) The method of mounting the Nickel-63 source in the source holder sub-assembly ensures the source will stay put in the sub-assembly even under extreme conditions.
- ii) Shielding of the source is three fold. First, in the source holder, second, in the source base assembly, and third, by placing the IMS Detector in the Analytical Unit.
- iii) Access to the source by human hands is impossible as there are no openings or orifices large enough in the Analytical Unit to allow human hands to penetrate.

11.4 Labelling

A warning label (drawing number LA-B-007) will be affixed to the device in the location depicted in Figure C (drawing number MA-A-079). This location should ensure visibility of the label in most cases regardless of the type of equipment the device will be installed in. If the installation does not allow for easy visibility, a second label will be affixed to a surface that is visible. The label will be an adhesive type with the radiation symbol being a magenta colour on a yellow background. The label will read as follows:



11.5 Manual

All manuals supplied with any systems containing a Nickel-63 source will have:

- a. On the inside of the front cover an 8 1/2" x 11" page containing the same words as depicted on the label above, and an additional sentence located at the end stating: "For additional instructions on leak testing and servicing refer to the section entitled "Radioactive Device" contained in this manual".
- b. A separate section entitled "Radioactive Device", containing the following information:

General

This equipment contains a radioactive device(s). Which is licensed under the U.S. NRC and is subject to licensing requirements. Each device contains 3.3 millicuries of Nickel-63.

There is no direct radiation hazard from this source which is sealed inside the IMS Detector. No attempt should be made to open and service the device or to remove the source.

Leak Test Requirements

Each device must be leak tested at regular intervals, not to exceed twelve months. Leak test kits and the required analysis may be obtained from the National Leak Test Centre.

Procedure for Leak Testing

Turn the system off and let stand for one hour. Using the swabs supplied with the leak test kit, wipe the entire outer surface of the device including the gas flow line labelled "EXIT" attached to the device. Handle the sampled in accordance with the instructions provided with the test kit.

Servicing

Under no circumstances should any attempt be made to open and service this device.

In the event the device requires servicing, contact the CPAD U.S. representative at:

Coulter Sales
444 Barney's Joy Rd.
South Dartmouth, Massachusetts
02748-1004

Contact: Mr. Gordon Coulter
Tel: 508-636-6944
Fax: 508-636-3948

11.6 Prototype Testing

CPAD has been manufacturing and selling Explosives Detection Systems commercially in Canada and other parts of the world for three years. To date no contamination or leakage has been recorded. As part of the prototype testing, a device which was manufactured in 1992 will be wiped, and the results submitted along with the results from an evaluation according to ANSI N542.

The designated classification code of this device is ANSI 77C32211.

The following tests have been conducted in accordance with the ANSI standard. Testing was carried out in the first instance with the IMS Detector Installed in the Analytical Unit; to get closer to the "source", the IMS was removed from the Analytical Unit.

The IMS selected for testing is identified as IMS-1-013, and contained a Nickel-63 source supplied by NRD in September 1994. (See Appendix A for test results)

1) Baseline Test

The Analytical Unit with the IMS installed was wiped tested to determine the baseline. The results are identified as Code A-1 and Code A-2.

2) External Pressure Test

A vacuum chamber was constructed, and the IMS Detector installed in the Analytical Unit was placed in the chamber. Using a vacuum pump, the pressure in the chamber was brought down to 4 psi, and held there for five minutes. The chamber was then brought back to atmospheric pressure, and the procedure repeated a second time. The IMS Detector was then wipe tested. A second set of tests was done with the IMS removed from the Analytical Unit. The results are identified as Code B-1, Code B-2, Code C-1, and Code C-2.

3) The Hammer Impact Test

A steel hammer of 50.9 g mass was constructed according to the ANSI standard and dropped once from a height of 1 m on the IMS Detector. The IMS Detector was placed on a cement floor during this test. A dry wipe test was performed. The results are identified as Code D-1 and Code D-2.

4) High Temperature Test

The IMS Detector was placed in a convection oven at 36 degrees C and was brought to a temperature of 260 degrees C in 6 minutes, and was maintained at that temperature for one hour. Air was passed through the IMS during the one hour heating period. The IMS was removed from the oven and left to cool for 40 minutes, after which a wipe test was performed. The results are identified as Code E-1 and Code E-2.

5) Low Temperature Test

The IMS Detector was placed into a styrofoam container, which was filled with dry ice, and left there for one hour. The IMS was removed from the container and was allowed to warm up for one hour and thirty minutes. Air was passed through the IMS for 10 minutes, after which a wipe test was carried out. The results are identified as Code F-1 and Code F-2.

6) The Drop Test

The IMS Detector was dropped ten times from a height of 1.5 m on a steel plate in such a way that all surfaces were impacted at least once. A dry wipe test was performed. The results are identified as Code G-1 and G-2.

7) History Test

A device similar to the one tested above that was Manufactured in September 1992, was wipe tested using the dry wipe method. In this case, the Analytical Unit containing the IMS was wiped and then a side panel was removed to expose the IMS, which was also wiped. The results are identified as Code H-1.

12.0 INSTALLATION

The IMS will be installed in the Analytical Unit by CPAD Technologies Inc. of Canada and therefore will never come in contact with any other person other than the manufacturer.

13.0 SERVICING

In the event a device requires servicing, the device will be returned to Canada where a person at the licensed facility will perform the work. No servicing or opening of the device is to be performed in the U.S. office.

APPENDIX A

LEAK TEST RESULTS



Atomic Energy
Control Board

Commission de contrôle
de l'énergie atomique

Ottawa, Canada
K1P 5S9

**DIRECTORATE OF FUEL CYCLE
AND MATERIALS REGULATION**

Telephone: (613) 943-1568

January 31, 1996

N. Barton Radiation Protection Services
38 Auriga Drive
Suite 269
Nepean, Ontario
K2E 8A5

Dear Mr. Barton:

This is to inform you that your equipment and procedures have been assessed by Atomic Energy Control Board (AECB) staff and found to satisfy the criteria set out in regulatory guide R-116 (Requirements for Leak Testing Selected Sealed Radiation Sources). The name and location of your organization and the name of the appropriate contact person will be maintained in our database. This information will be provided to AECB licensed users of leak test services upon request and to applicants for new licences.

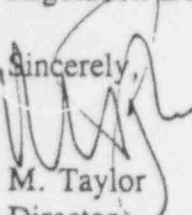
Please note that this is restricted to the isotopes specified in your submission, namely:

- | | | | |
|-----------|-----------|-----------|------------|
| 1. Co-60 | 4. Am/Be | 7. Am-241 | 10. Cd-109 |
| 2. Sr-90 | 5. Ir-192 | 8. Fe-55 | |
| 3. Cs-137 | 6. Cm-244 | 9. Ni-63 | |

Future re-assessments of your equipment and procedures will be done periodically. If future assessments continue to be positive, information on your organization will continue to be made available as described above. Future re-assessments will likely be coordinated with your regularly scheduled licence inspections.

If you have any questions regarding this matter, please forward them to the Materials Regulation Division at the above address.

Sincerely,


M. Taylor
Director

Materials Regulation Division

c.c.: CRO

ASG/MRD/96-0413

Canada

Fax/Télecopieur (613) 995-5086
Envoyé AECBREG

WIFE TEST INFORMATION

CODE A	Initial test on complete Analytical Unit Counts/50 min 2096 paper Counts/50 min 2132 cotton swab	27 May 96
CODE B	Pressure test on Complete Analytical Unit Counts/50 min 2184 paper Counts/50 min 2024 cotton swab	27 May 96
CODE C	Pressure test IMS Counts/50 min 2119 paper Counts/50 min 2147 cotton swab	27 May 96
CODE D	Hammer impact test IMS Counts/50 min 2089 paper Counts/50 min 2016 cotton swab	28 May 96
CODE E	High temperature test IMS Counts/50 min 2040 paper Counts/50 min 2139 cotton swab	28 May 96
CODE F	Low temperature test IMS Counts/50 min 2103 paper Counts/50 min 2073 cotton swab	29 May 96
CODE G	Drop test IMS Counts/50 min 2213 paper Counts/50 min 2077 cotton swab	29 May 96
CODE H	History test complete Analytical Unit plus exposed surface of IMS Counts/50 min 2123 paper	29 May 96

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code A - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2096

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code A - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2132

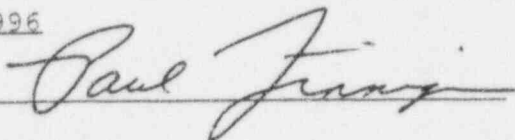
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code B - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2184

E = detector efficiency: .003

Activity (Bq) $\leq \frac{2184 - 2065}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code B - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2024

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code C - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2119

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code C - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2147
E = detector efficiency: .003
Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code D - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2089

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code D - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2016

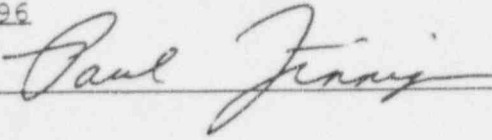
E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code E - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2040

E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code E - 2

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2139

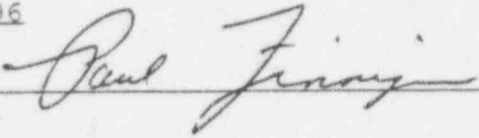
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code F - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2103

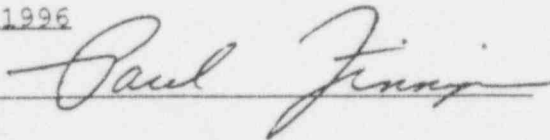
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEathern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code F - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2073

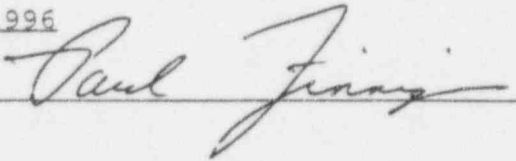
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code G - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2213

E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code G - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2077

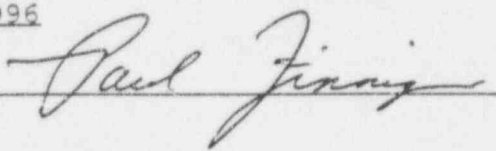
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 29, 1996
Sample I.D.: Code H
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2123
E = detector efficiency: .003
Activity (Bq) ≤ 18.7 = $\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

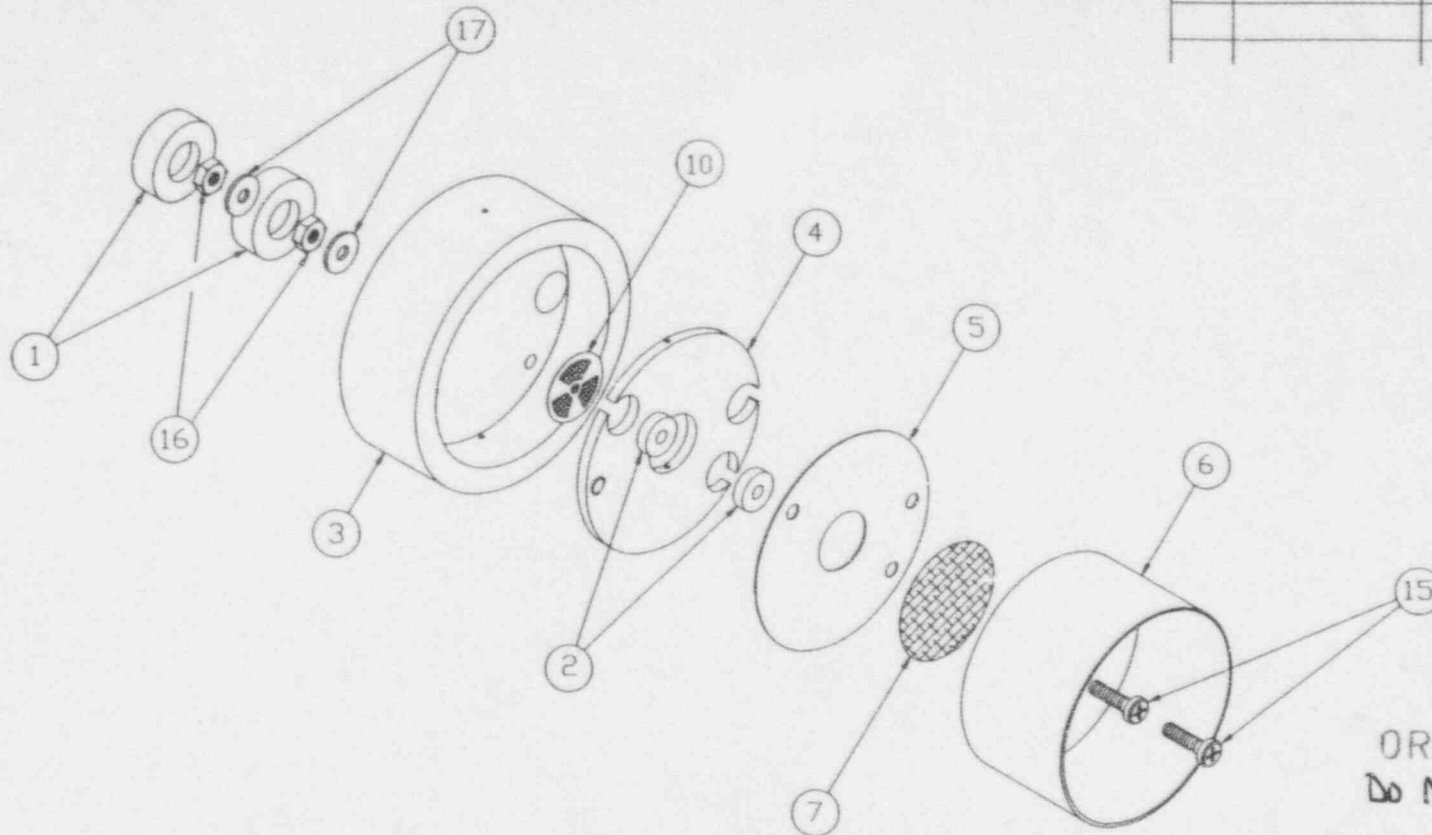
Signature of Measurer: Paul Finnigan

APPENDIX B

ASSOCIATED DRAWINGS

SYM	REVISION	DATE	BY	CHK

IM-B-035



ORIGINAL
Do Not Copy

UNLESS OTHERWISE SPECIFIED

- | | |
|--|---|
| <p>1. DO NOT SCALE DRAWING.</p> <p>2. DIMENSIONS ARE IN <u>INCH</u></p> <p>3. THREAD LENGTH DIMENSIONS ARE FULL THREADS.</p> <p>4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES)</p> <p>DECIMAL .XX ± .01</p> <p>.XXX ± .005</p> <p>.XXXX ± .0005</p> <p>FRACTIONAL ± .1</p> <p>ANGULAR ± .1</p> | <p>5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.</p> <p>6. ROUGHNESS OF SURFACE NOT TO EXCEED <u>63</u> IN</p> <p>7. ALL RADII ARE .125 R</p> <p>8. _____</p> <p>_____</p> <p>_____</p> |
|--|---|

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MATERIAL _____

FINISH _____

DWG BY	DATE
RMJ	03/10/94
CHK BY	DATE
WK	04.06.96
APPD BY	DATE
WK	04.06.96

SCALE
1:1

CPAD
TECHNOLOGIES INC.

TITLE

SOURCE HOLDER
SUB-ASSEMBLY

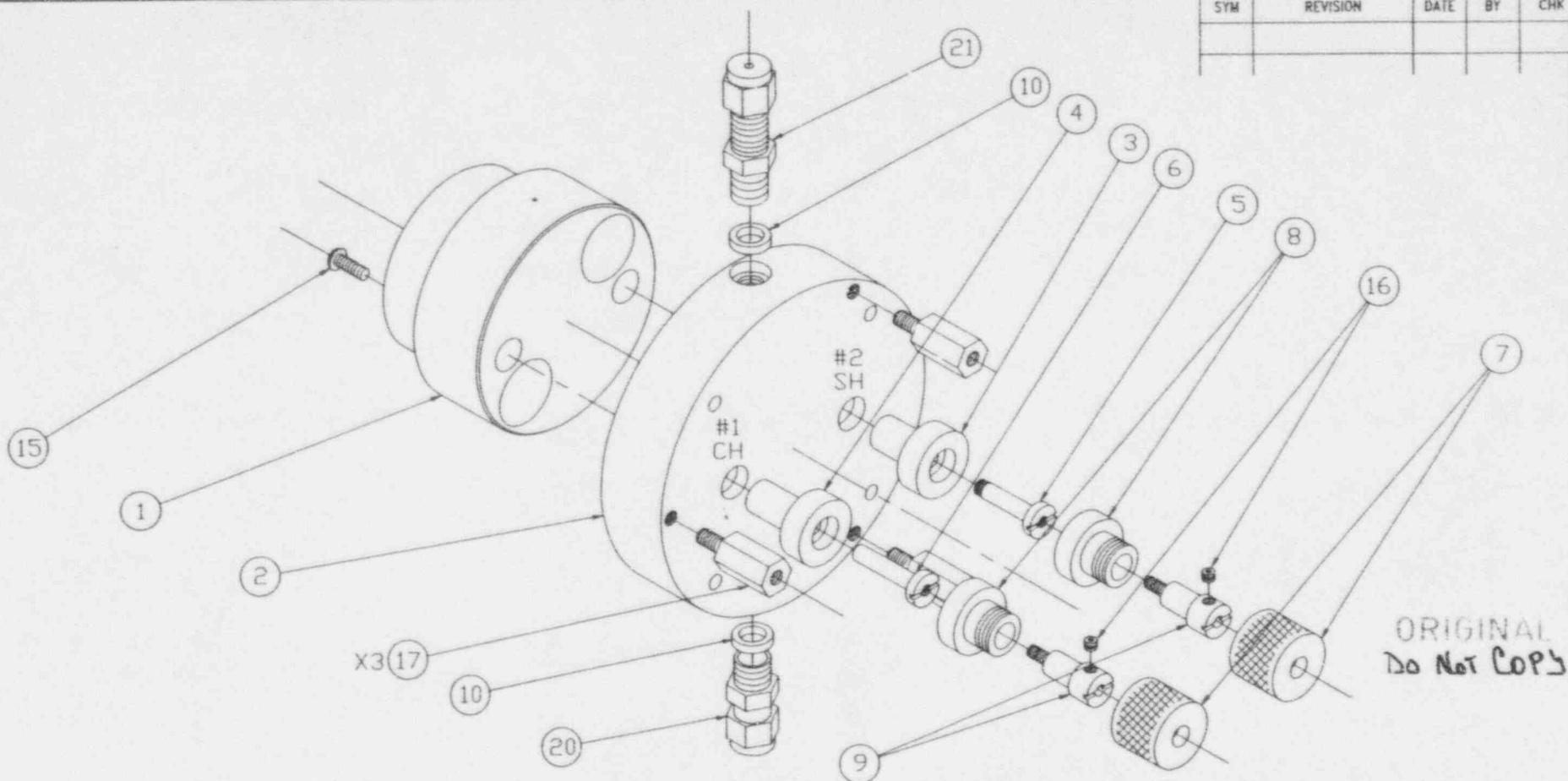
SIZE
B

SHEET 1 OF 1

DWG NO
IM-B-035

REV

-



SYM	REVISION	DATE	BY	CHK

IM-B-036

ORIGINAL
Do Not COPY

UNLESS OTHERWISE SPECIFIED

- | | |
|---|---|
| <p>1. DO NOT SCALE DRAWING.</p> <p>2. DIMENSIONS ARE IN <u>INCH</u></p> <p>3. THREAD LENGTH DIMENSIONS ARE FULL THREADS.</p> <p>4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES)</p> <p>DECIMAL .XX ± .01</p> <p>.XXX ± .005</p> <p>.XXXX ± .0005</p> <p>FRACTIONAL ±</p> <p>ANGULAR ± .1</p> | <p>5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.</p> <p>6. ROUGHNESS OF SURFACE NOT TO EXCEED <u>63</u> IN</p> <p>7. ALL RADII ARE .125 R</p> <p>8. _____</p> <p>_____</p> <p>_____</p> |
|---|---|

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MATERIAL _____

FINISH _____

DWG BY	DATE
RMJ	03/10/94
CHK BY	DATE
WK	04.06.96
APPD BY	DATE
WK	04.06.96

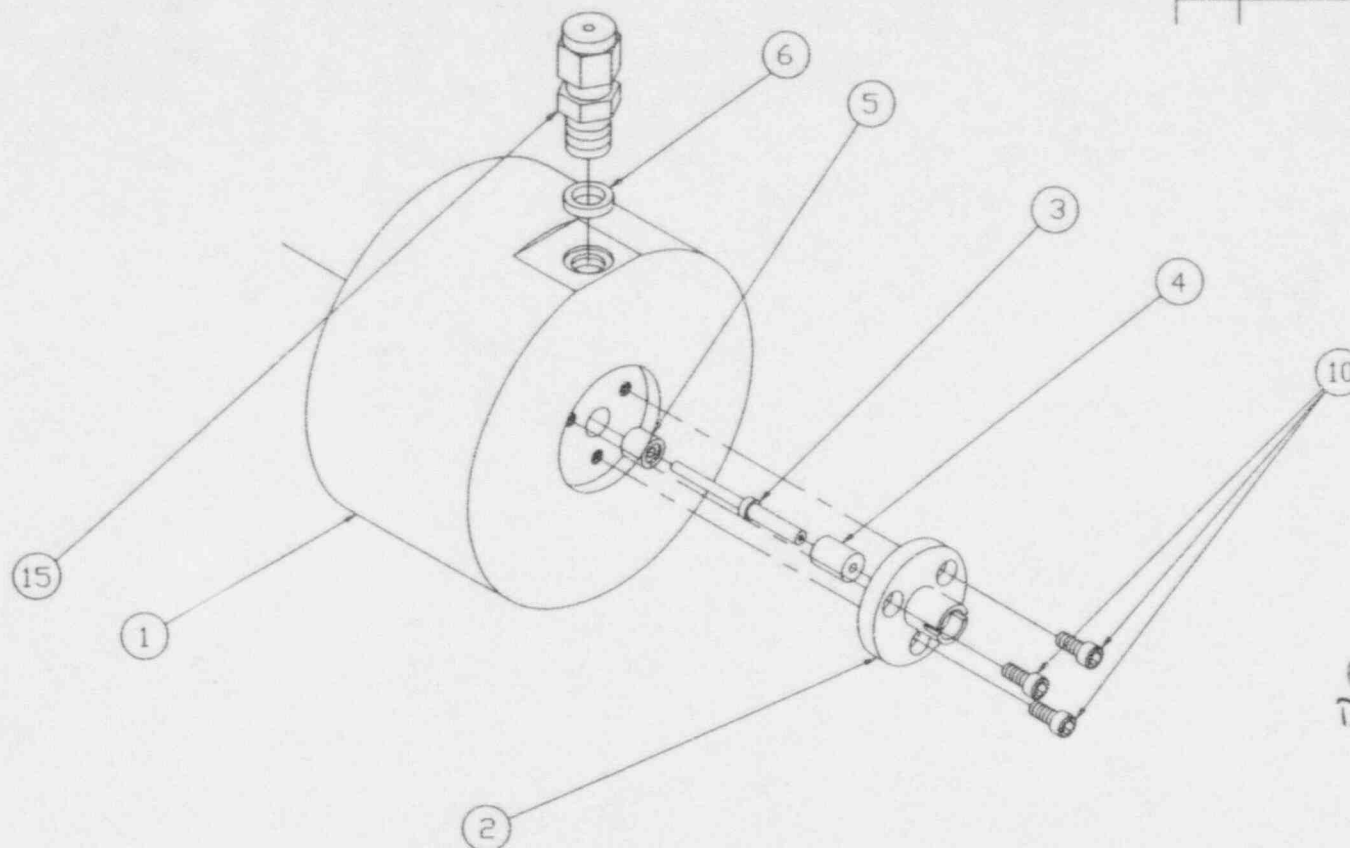
SCALE
1:1

CPAD
TECHNOLOGIES INC.

TITLE			
SOURCE BASE SUB-ASSEMBLY			
SIZE	SHEET 1 OF 1	DWG NO	REV
B		IM-B-036	-

SYM	REVISION	DATE	BY	CHK

IM-B-037



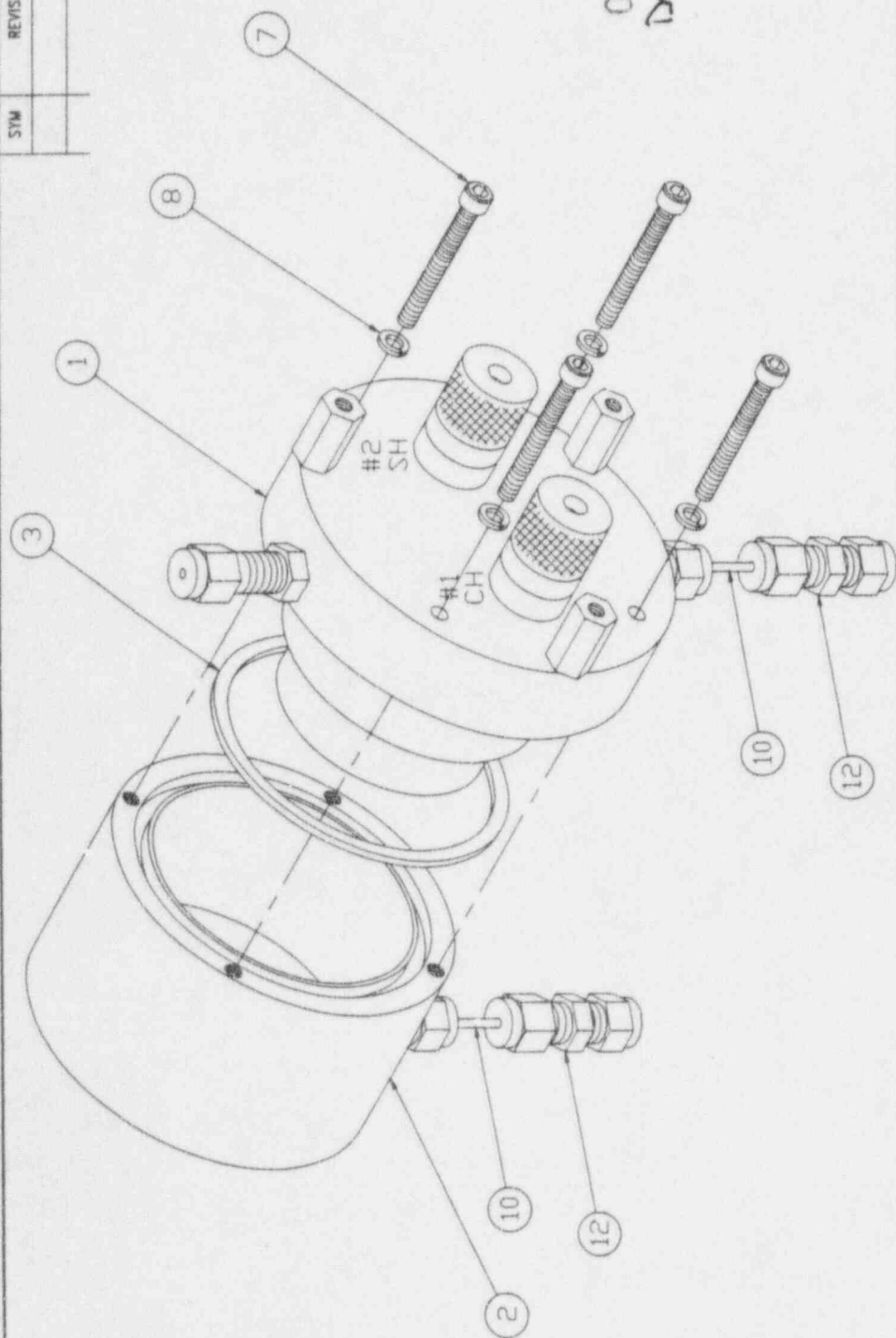
ORIGINAL
Do Not Copy

<p>UNLESS OTHERWISE SPECIFIED</p> <p>1. DO NOT SCALE DRAWING.</p> <p>2. DIMENSIONS ARE IN INCH</p> <p>3. THREAD LENGTH DIMENSIONS ARE FULL THREADS.</p> <p>4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES)</p> <p>DECIMAL .xx ± .01</p> <p>.xxx ± .005</p> <p>.xxxx ± .0005</p> <p>FRACTIONAL ± 1/16</p> <p>ANGULAR ± 1/2</p>		<p>5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.</p> <p>6. ROUGHNESS OF SURFACE NOT TO EXCEED 63 IN</p> <p>7. ALL RADII ARE .125 R</p> <p>8. _____</p> <p>_____</p> <p>_____</p>		<p>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CPAD TECHNOLOGIES INC. AND SHALL NOT BE REPRODUCED, COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT THE WRITTEN PERMISSION OF CPAD TECHNOLOGIES INC.</p> <p>MATERIAL _____</p> <p>FINISH _____</p>		<p>DWG BY RMJ</p> <p>CHK BY WK</p> <p>APPD BY WK</p>	<p>DATE 11/10/94</p> <p>DATE 04.06.96</p> <p>DATE 04.06.96</p>	<p>CPAD TECHNOLOGIES INC.</p> <p>TITLE</p> <p>SOURCE COVER SUB-ASSEMBLY</p>		<p>SCALE 1:1</p>	<p>SIZE B</p>	<p>SHEET 1 OF 1</p>	<p>DWG NO IM-B-037</p>	<p>REV -</p>
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IM-B-040

SYM	REVISION	DATE	BY	CHK

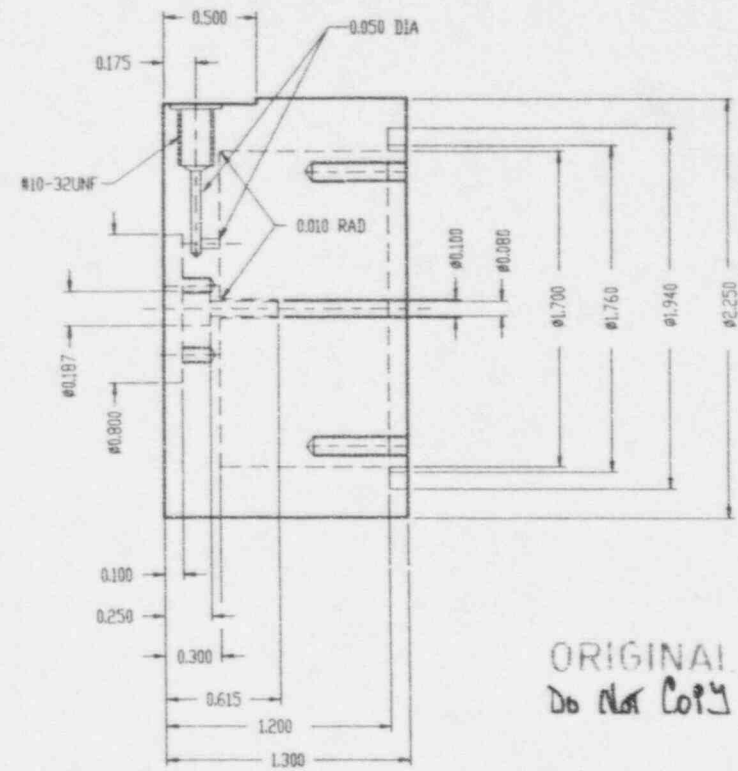
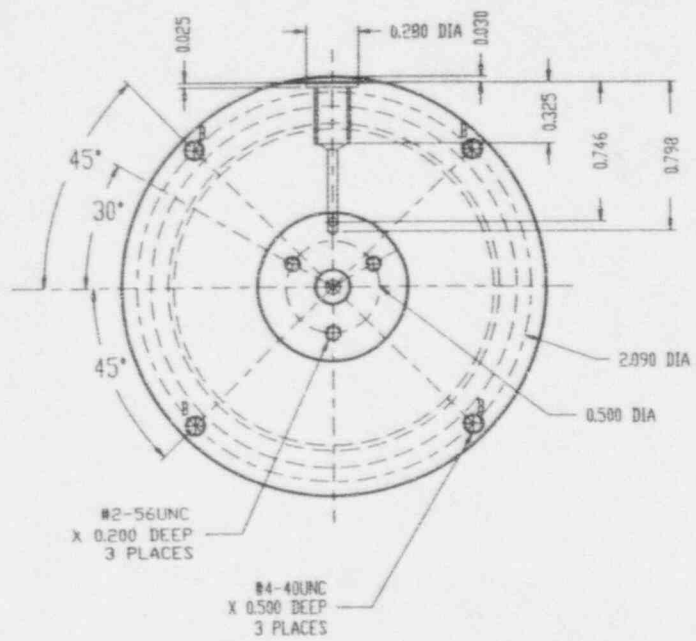
ORIGINAL
Do Not Copy



CPAD TECHNOLOGIES INC.		TITLE IMS ASSEMBLY		SIZE B	SHEET 1 OF 1	REV IM-B-040
DWG BY RMJ	DATE 03/11/94	CHK BY W/K	DATE 04/06/96	APPO BY W/K	DATE 04/06/96	SCALE 1:1
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CPAD TECHNOLOGIES INC. AND SHALL NOT BE REPRODUCED, COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT THE WRITTEN PERMISSION OF CPAD TECHNOLOGIES INC.						
MATERIAL						
FINISH						
UNLESS OTHERWISE SPECIFIED						
1. DO NOT SCALE DRAWING.						
2. DIMENSIONS ARE IN INCH						
3. THREAD LENGTH DIMENSIONS ARE FULL THREADS.						
4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES)						
DECIMAL						
.XX ± .01						
.XXX ± .005						
.XXXX ± .0005						
FRACTIONAL						
ANGULAR						
± .1						
5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.						
6. ROUGHNESS OF SURFACE NOT TO EXCEED 6.3 IN						
7. ALL RADI ARE .125 R						
8.						

SYM	REVISION	DATE	BY	CHK

IM-B-001



ORIGINAL
Do Not Copy

UNLESS OTHERWISE SPECIFIED

- | | |
|---|---|
| <p>1. DO NOT SCALE DRAWING.</p> <p>2. DIMENSIONS ARE IN INCH</p> <p>3. THREAD LENGTH DIMENSIONS ARE FULL THREADS.</p> <p>4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES)</p> <p>DECIMAL</p> <p> XX ± .01</p> <p> XXX ± .002</p> <p> XXXX ± .0005</p> <p>FRACTIONAL</p> <p>ANGULAR</p> <p> ± .1</p> | <p>5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.</p> <p>6. ROUGHNESS OF SURFACE NOT TO EXCEED 6.3 IN</p> <p>7. ALL RADII ARE .125 R</p> <p>8.</p> |
|---|---|

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MATERIAL ALUMINUM BAR

FINISH NONE

DWG BY RMJ DATE 14/07/94

CHK BY WK DATE 04.06.96

APPD BY WK DATE 04.06.96

SCALE 1.5:1

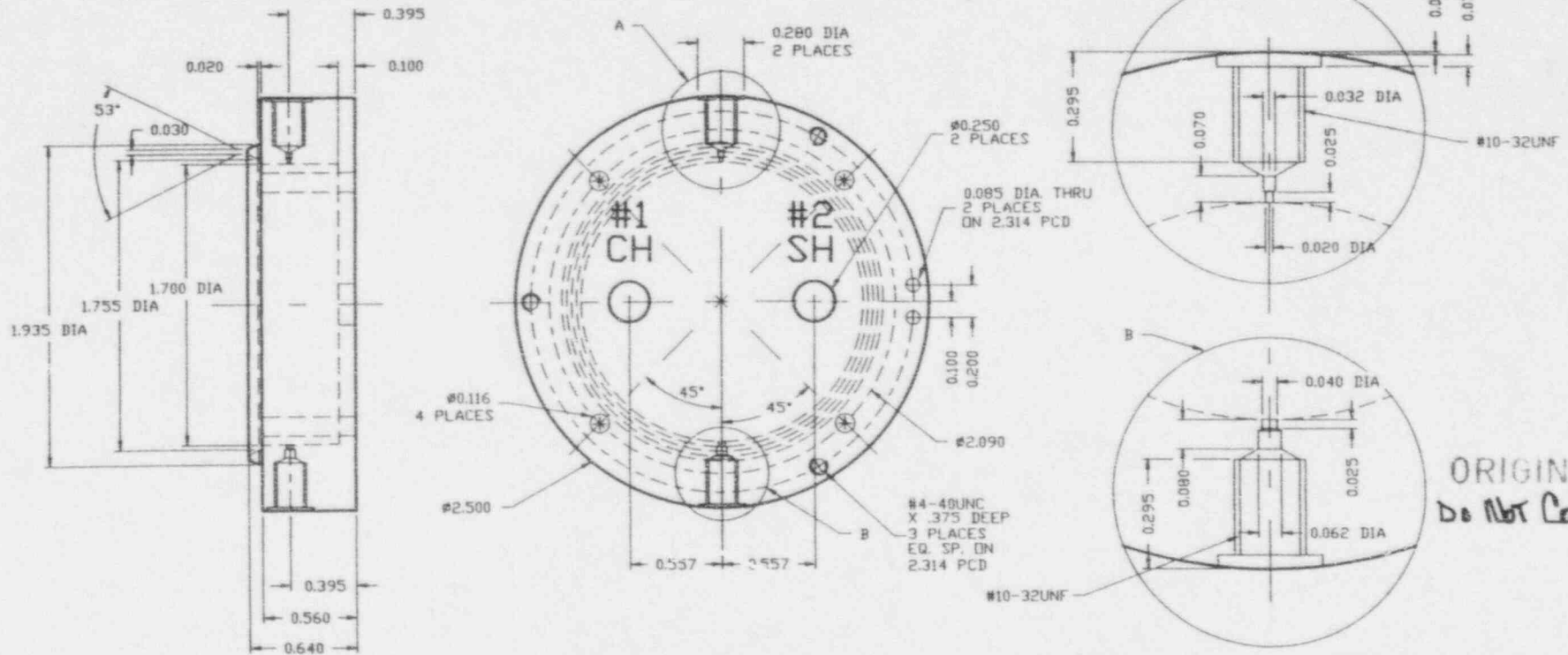
CPAD
TECHNOLOGIES INC.

TITLE BASE

SIZE B	SHEET 1 OF 1	DWG NO IM-B-001	REV A
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SYM	REVISION	DATE	BY	CHK

IM-B-002



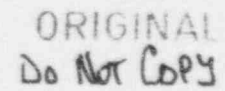
ORIGINAL
Do Not Copy

UNLESS OTHERWISE SPECIFIED 1. DO NOT SCALE DRAWING. 2. DIMENSIONS ARE IN INCH 3. THREAD LENGTH DIMENSIONS ARE FULL THREADS. 4. TOLERANCE ON DIMENSIONS (INCLUDING HOLES) DECIMAL .XX ± .01 .XXX ± .002 .XXXX ± .0005 FRACTIONAL ± ANGULAR ± 1		5. REMOVE ALL BURRS AND SHARP CORNERS .015 MAX. 6. ROUGHNESS OF SURFACE NOT TO EXCEED 63 IN 7. ALL RADII ARE .125 R 8.		THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CPAD TECHNOLOGIES INC. AND SHALL NOT BE REPRODUCED, COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT THE WRITTEN PERMISSION OF CPAD TECHNOLOGIES INC.		DWG BY RMJ CHK BY WK APPD BY WK	DATE 14/07/94 DATE 04.06.96 DATE 04.06.96	CPAD TECHNOLOGIES INC.		TITLE SOURCE BASE		SCALE 1.5:1	SIZE B	SHEET 1 OF 1	DWG NO IM-B-002	REV -
MATERIAL ALUMINUM ROD FINISH NONE																

SYM	REVISION	DATE	BY	CHK

0.010 RAD.

IM-B-022



- | | |
|---------------|------------------|
| DWG BY
RMJ | DATE
12/07/94 |
| CHK BY
WK | DATE
04.06.96 |
| APPD BY
WK | DATE
04.06.96 |

CPCD
TECHNOLOGIES INC.

TITLE

SOURCE HOLDING WASHER

SCALE
2 : 1

SIZE
A

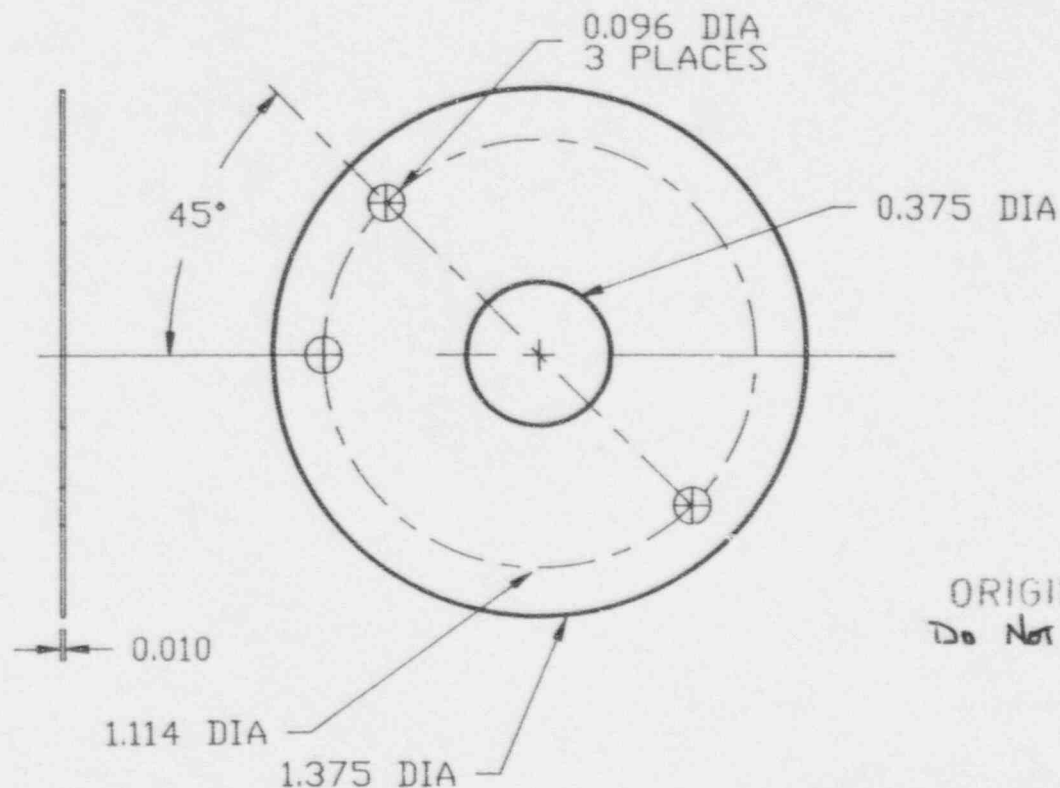
SHEET 1 OF 1

DWG NO	REV
IM-B-022	-

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SYM	REVISION	DATE	BY	CHK

IM-B-023



UNLESS OTHERWISE SPECIFIED

- DO NOT SCALE DRAWING.
- DIMENSIONS ARE IN INCH
- THREAD LENGTH DIMENSIONS ARE FULL THREADS.
- TOLERANCE ON DIMENSIONS (INCLUDING HOLES)
DECIMAL .XX ± .01
XXX ± .002

- REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.
- ROUGHNESS OF SURFACE NOT TO EXCEED 63 IN
- ALL RADII ARE .125 R

MATERIAL
TEFLON

FINISH

DWG BY
RMJ
DATE
13/07/94

CHK BY
WK
DATE
04.06.96

APPD BY
WK
DATE
04.06.96

SCALE
2:1

CPCD
TECHNOLOGIES INC.

TITLE

CUP
WASHER SEPERATOR

SIZE
A

SHEET 1 OF 1

DWG NO
IM-B-023

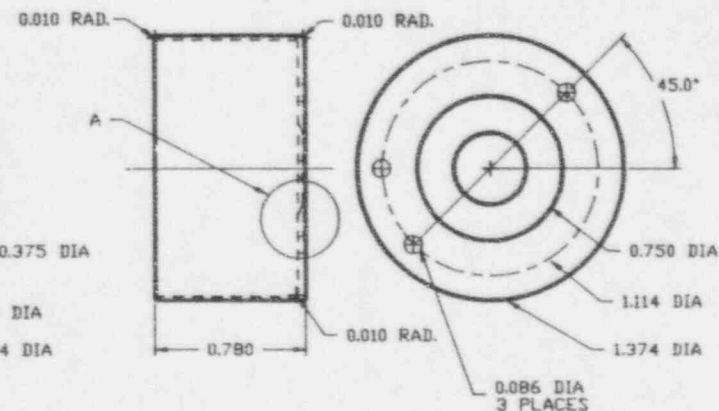
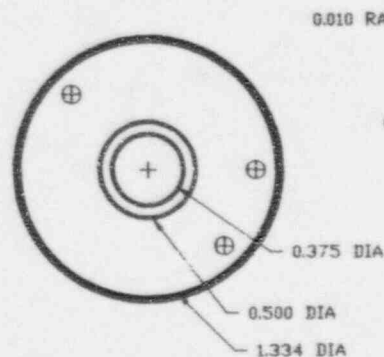
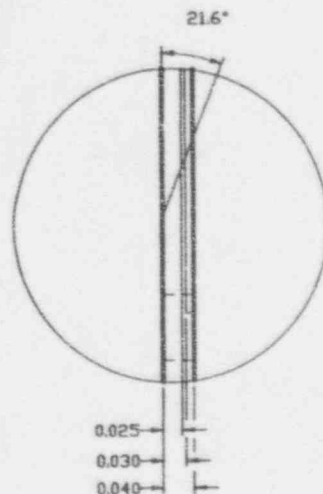
REV

-

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SYM	REVISION	DATE	BY	CHK

IM-B-024



ORIGINAL
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UNLESS OTHERWISE SPECIFIED

- DO NOT SCALE DRAWING.
- DIMENSIONS ARE IN INCH
- THREAD LENGTH DIMENSIONS ARE FULL THREADS.
- TOLERANCE ON DIMENSIONS (INCLUDING HOLES)
DECIMAL .XX ± .01
XXX ± .002

- FRACTIONAL ± .1
ANGULAR ± .1
- REMOVE ALL BURRS AND SHARP CORNERS .015 MAX.
- ROUGHNESS OF SURFACE NOT TO EXCEED 63 IN
- ALL RADII ARE .125 R

MATERIAL ALUMINUM ROD

FINISH

DWG BY RMJ
DATE 13/07/94

CHK BY WK
DATE 04.06.96

APPD BY WK
DATE 04.06.96

SCALE
1:1

CPAD
TECHNOLOGIES INC.

TITLE

CUP
SCREEN HOLDER

SIZE A	SHEET 1 OF 1	DWG NO IM-B-024	REV -
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SYM	REVISION	DATE	BY	CHK

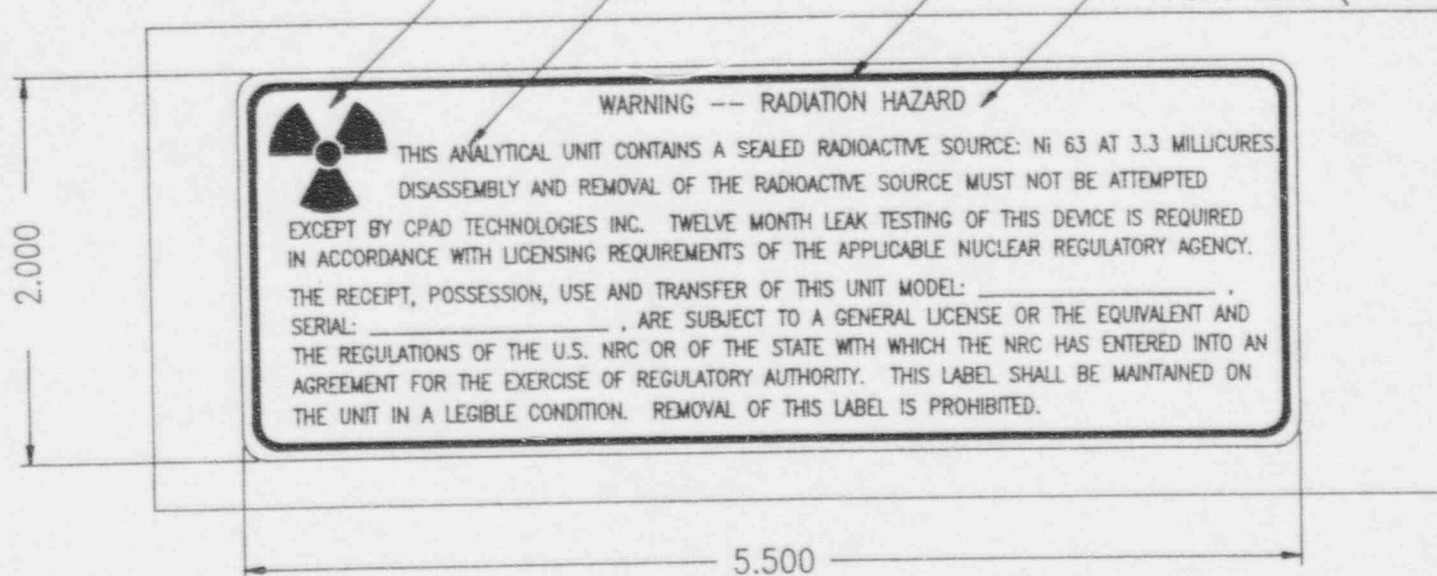
LA-B-007

ATOMIC ENERGY STD.
RADIATION SYMBOL
C.365, SHEDULE III

FONT .08 (NEW TIMES ROMAN 8)

BORDER .035 WIDE

FONT .095 (TIMES NEW ROMAN 10)



ORIGINAL
Do Not Copy

NOTE : THE LABEL WILL BE AN ADHESIVE TYPE.
WITH THE RADIATION SYMBOL AND TEXT COLORED
MAGENTA ON A YELLOW BACKGROUND

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WRITTEN PERMISSION OF **CPAD TECHNOLOGIES INC.**

DWG BY NDW	DATE 30/05/96
CHK BY RMJ	DATE 03/06/96
APPD BY WK	DATE 04/06/96

SCALE
1:1

CPAD
TECHNOLOGIES INC.

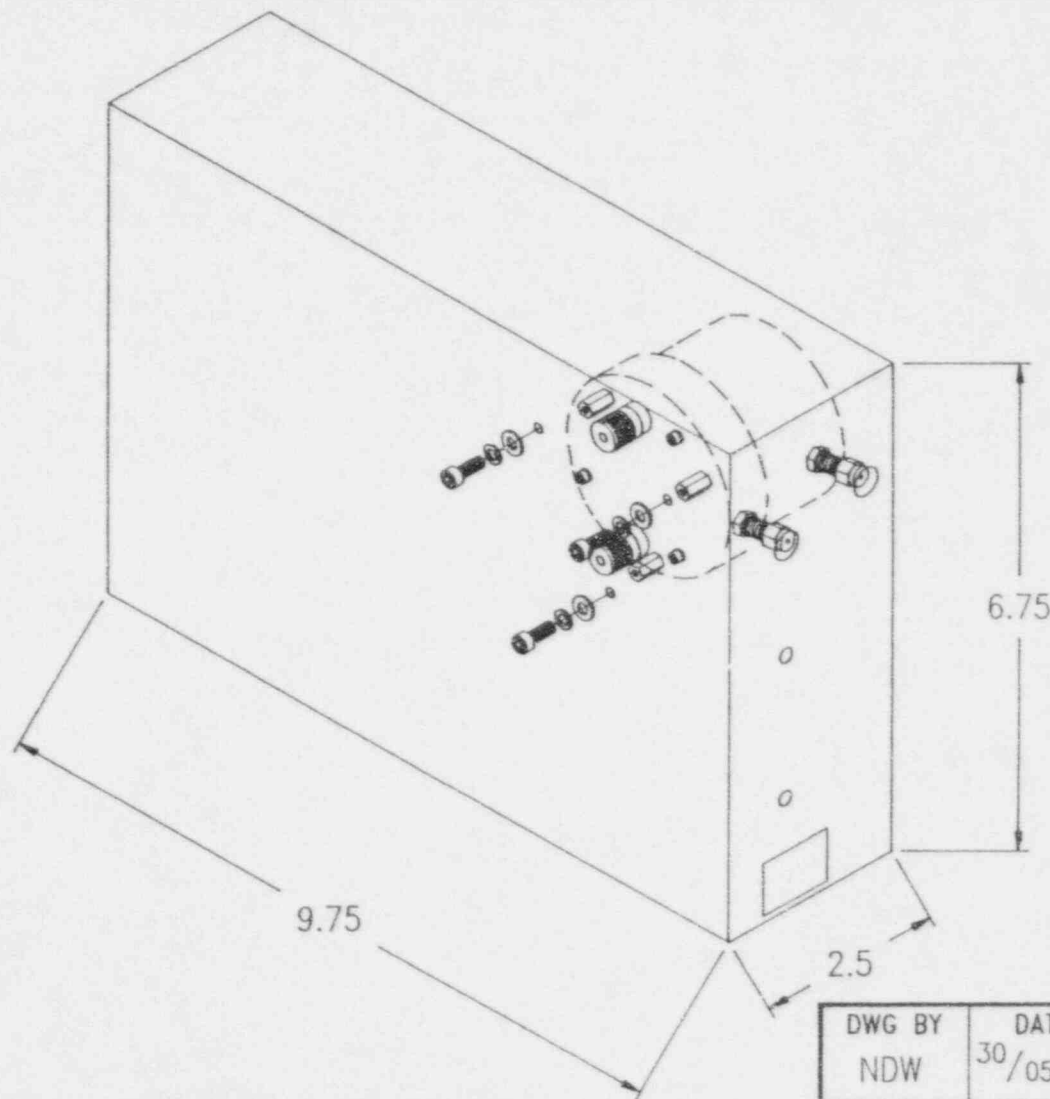
TITLE

RADIATION HAZARD
IMS WARNING LABEL

SIZE A	SHEET 1 OF 1	DWG NO LA-B-007	REV -
------------------	--------------	---------------------------	----------

SYM	REVISION	DATE	BY	CHK

MA-A-078



ORIGINAL
Do Not Copy

FIGURE B

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DWG BY NDW	DATE 30/05/96
CHK BY RMJ	DATE 03/06/96
APPD BY WK	DATE 04.06.96
SCALE NTS	

CPAD
TECHNOLOGIES INC.

TITLE

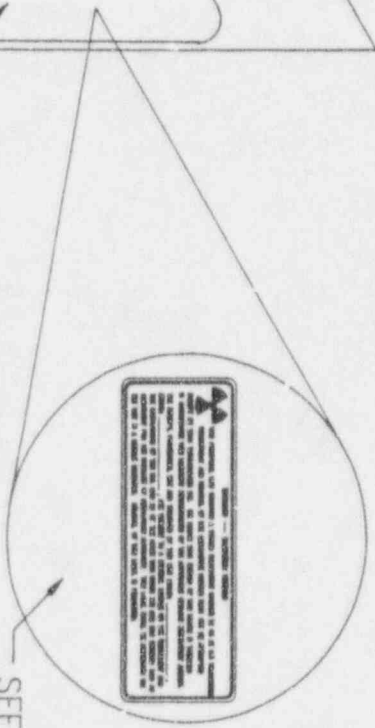
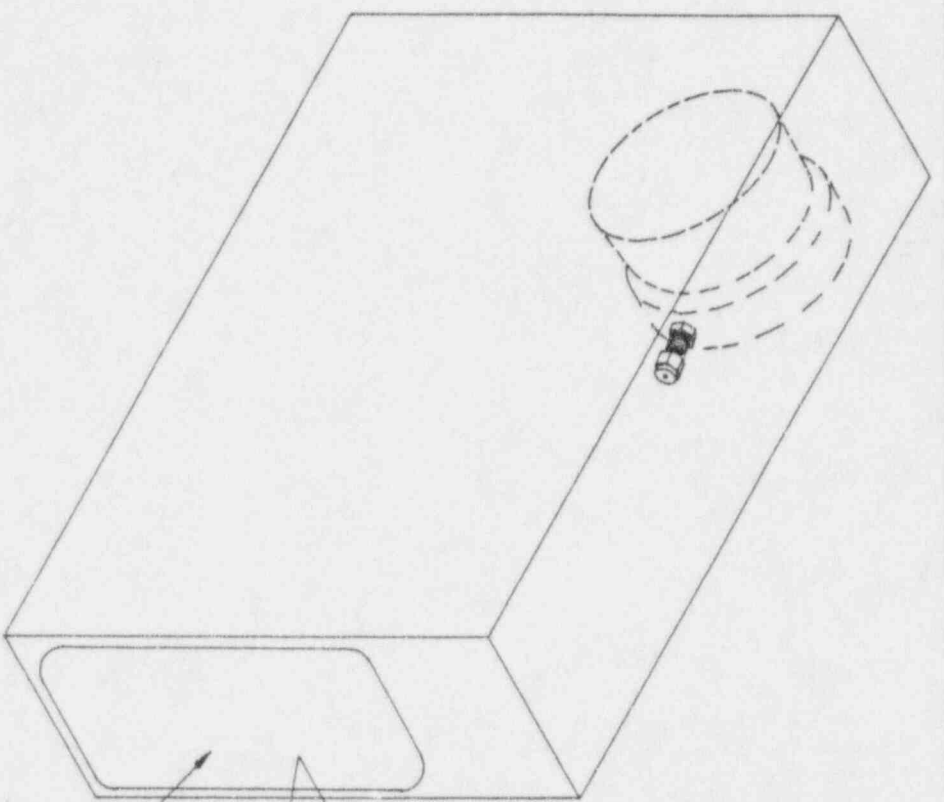
ANALYTICAL BOX
PICTORIAL REPRESENTATION

SIZE	DWG NO	REV
A	MA-A-078	-

SHEET 1 OF 1

SYM	REVISION	DATE	BY	CHK

MA-A-079



LABEL LOCATION ON BOX

SEE DWG # LA-B-007

FIGURE C

ORIGINAL
Do Not Copy

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DWG BY NDW	DATE 30/05/96	CPAD TECHNOLOGIES INC.
CHK BY RMJ	DATE 03/06/96	
APPD BY WJK	DATE 04.06.96	
SCALE NTS		
TITLE ANALYTICAL BOX PICTORIAL REPRESENTATION		SIZE A
SHEET 1 OF 1		DWG NO MA-A-079
REV		REV --

SYM	REVISION	DATE	BY	CHK

MA-A-077

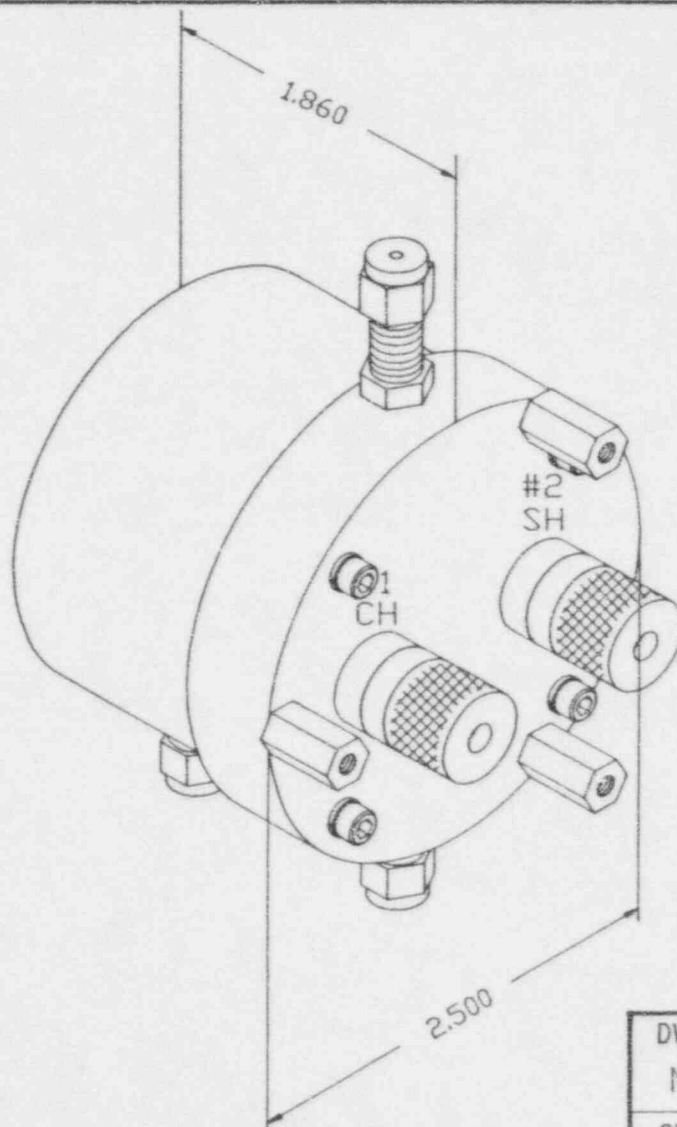


FIGURE A

ORIGINAL
Do Not Copy

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DWG BY NDW	DATE 30/05/96
CHK BY RMJ	DATE 03/06/96
APPD BY WK	DATE 04.06.96
SCALE NTS	

CPAD
TECHNOLOGIES INC.

TITLE

IMS ASSEMBLY
PICTORIAL REPRESENTATION

SIZE
A

SHEET 1 OF 1

DWG NO
MA-A-077

REV
-

NRC FORM 313

(6-93)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0120
EXPIRES 6-30-96

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MMRB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
USLE, IL 60532-4351

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW
MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S.
TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

RADIOACTIVE MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION V
1450 MARIA LANE
WALNUT CREEK, CA 94596-5368

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☐ C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

CPAD Technologies Inc.
66 Slater Street, 6th Floor
Ottawa, Ontario
Canada K1P 5H1

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Coulter Sales
444 Barneys Joy Road
South Dartmouth, Massachusetts
02748-1004 USA

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Al McEachern

TELEPHONE NUMBER

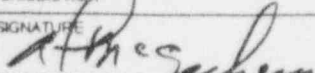
613-230-0609

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS
9. FACILITIES AND EQUIPMENT	10. RADIATION SAFETY PROGRAM
11. WASTE MANAGEMENT	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY <u>TBD</u> AMOUNT <u>ENCLOSED \$ TBD</u>
13. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.	

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE Business
Al McEachern, Director, Development

SIGNATURE



DATE

20 June 96

9706240038 50pp FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
-------------	---------	--------------	-----------------	--------------	----------

APPLICATION FOR LICENCE

NRC FORM 313

ITEMS 5 THROUGH 11

POSSESSION LICENSE APPLICATION

ITEM 5. RADIOACTIVE MATERIAL.

Radioactive Material: Nickel-63

The Nickel-63 source is purchased from NRD Static Controls and is registered with the NRC. The registration number is N1001. The source is 3.3 millicuries in strength and is plated on a nickel substrate 0.008" thick.

The maximum amount that will be possessed at any one time will be 16.5 millicuries.

ITEM 6. PURPOSE FOR WHICH THE LICENSED MATERIAL WILL BE USED.

The Nickel-63 source will be used as an ionizing source in an Ion Mobility Spectrometer (IMS) Analytical Unit. The unit will be identified by Model No. and Serial No.

The Analytical Units will be incorporated into a number of different systems manufactured by CPAD Technologies Inc. of Canada for the purpose of detecting organic compounds. CPAD is currently using the Nickel-63 source in its Explosives Detection System, and the Narcotics & Explosives Detection System.

It is CPAD's intention to market the Detection Systems in the U.S.

ITEM 7. RESPONSIBLE INDIVIDUAL.

The Analytical Unit will be manufactured and installed as a component in the Detection System at the Canadian facility, and all servicing of the Analytical Unit will be done in Canada. No individual in the U.S. will handle, install or come into contact with the Nickel-63 source. CPAD's U.S. agent/distributor will only handle completed systems for delivery to a customer. The role of the U.S. agent/distributor will be to ensure all proper procedures have been satisfied according to the license agreement. The agent/distributor will not require any training on how to handle a radioactive source. The CPAD agent/distributor who will handle all systems that contain a Nickel-63 source is Mr. Gordon Coulter, address:

Coulter Sales
444 Barney's Joy Rd.
South Dartmouth, Massachusetts
02748-1004

It is expected that Detection Systems will have to be demonstrated and evaluated at locations other than the location identified above; it is for this reason that CPAD requests that the license have a provision for temporary job sites.

ITEM 9. FACILITIES AND EQUIPMENT.

Special facilities are not required as there will be no handling, installing or servicing at the U.S. agent/distributor location. If any repairs are required to the Analytical Unit it will be returned to CPAD Canada.

CPAD's U.S. office will be used to transfer systems to persons generally licensed and to maintain all records in accordance with 10 CFR section 32.51.

ITEM 10. RADIATION SAFETY PROGRAM.

1. Quality Assurance

CPAD procures the registered and tested Nickel-63 source from NRD Static Controls of the U.S.. The source is then incorporated into the IMS Detector. The Detector is designed to ensure no leakage from the source is possible under normal and extreme operating conditions. Tests conducted on the IMS Detector according to ANSI classification far exceeded the normal operating conditions of any system manufactured by CPAD and no leakage was detected. (See Section 2.4 and Appendix A)

CPAD has been manufacturing and selling Detection Systems commercially in Canada and other parts of the world for three years. To date no contamination or leakage has been recorded.

Prior to shipping any system containing a Nickel-63 source, CPAD Canada will perform a leak test, and a copy of the results will be included as part of the required documentation with the shipment.

Figure A (drawing number MA-A-077) depicts the final assembly drawing of an IMS Detector. The Detector is mounted into a metal box, a drawing of which is shown at Figure B (drawing number MA-A-078). The box with the IMS detector is referred to as the Analytical Unit. Figure C (drawing number MA-A-079) shows the location of the "Radiation Hazard" warning.

2. Radiological Safety Instructions

2.1 Labelling

The Analytical Unit will have a "Radiation Hazard" warning affixed as shown in Figure C (drawing number MA-A-079). If the installation of the Analytical Unit in the main system restricts the visibility of the warning label, a second label will be affixed to the system to ensure visibility. The label will be an adhesive type with the radiation symbol being a magenta colour on a yellow background. The label will read as follows:

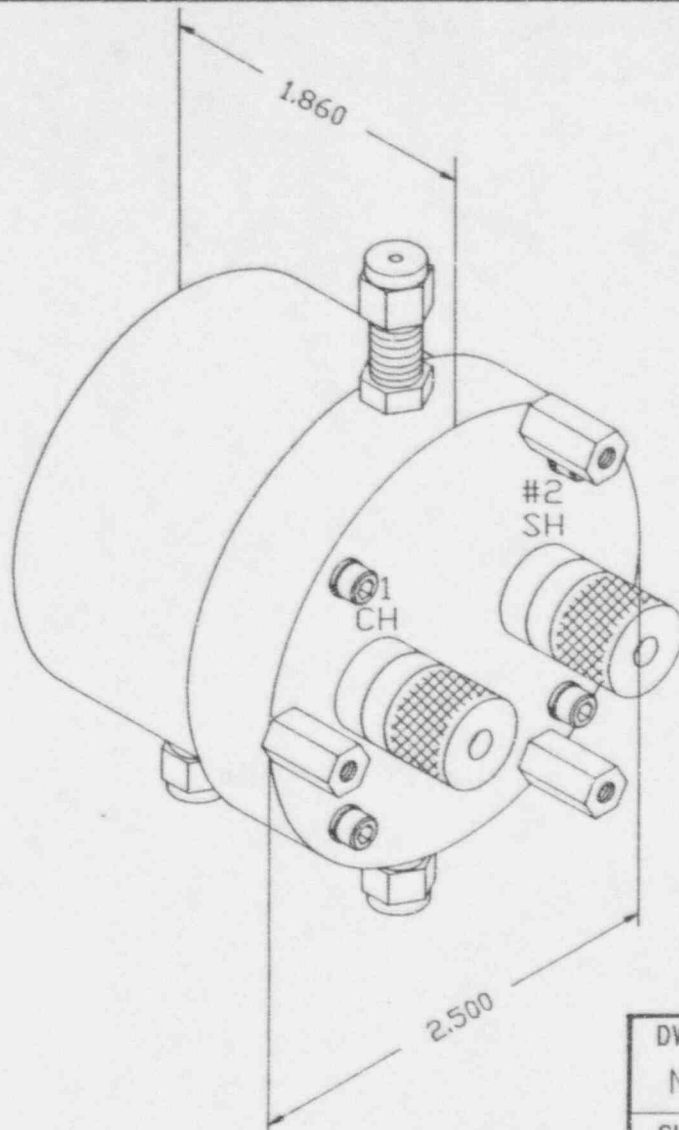


FIGURE A

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SYM	REVISION	DATE	BY	CHK

MA-A-077

ORIGINAL
Do Not Copy

DWG BY NDW	DATE 30/05/96
CHK BY RMJ	DATE 03/06/96
APPD BY WK	DATE 04.06.96
SCALE NTS	

CPAD
TECHNOLOGIES INC.

TITLE

IMS ASSEMBLY
PICTORIAL REPRESENTATION

SIZE	SHEET 1 OF 1	DWG NO	REV
A		MA-A-077	-

SYM	REVISION	DATE	BY	CHK

MA-A-078

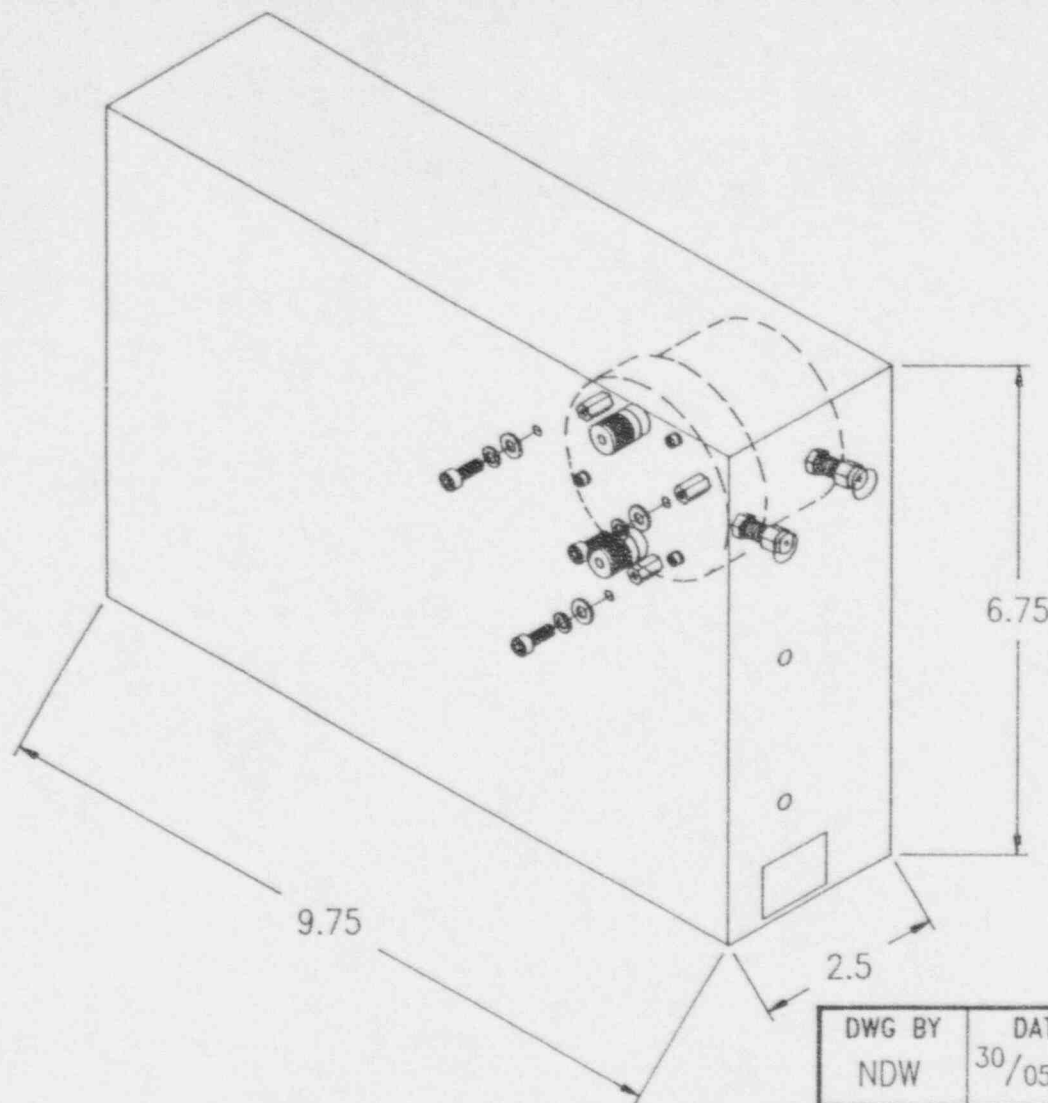


FIGURE B

ORIGINAL
Do Not Copy

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DWG BY NDW	DATE 30/05/96
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SCALE NTS	

CPAD
TECHNOLOGIES INC.

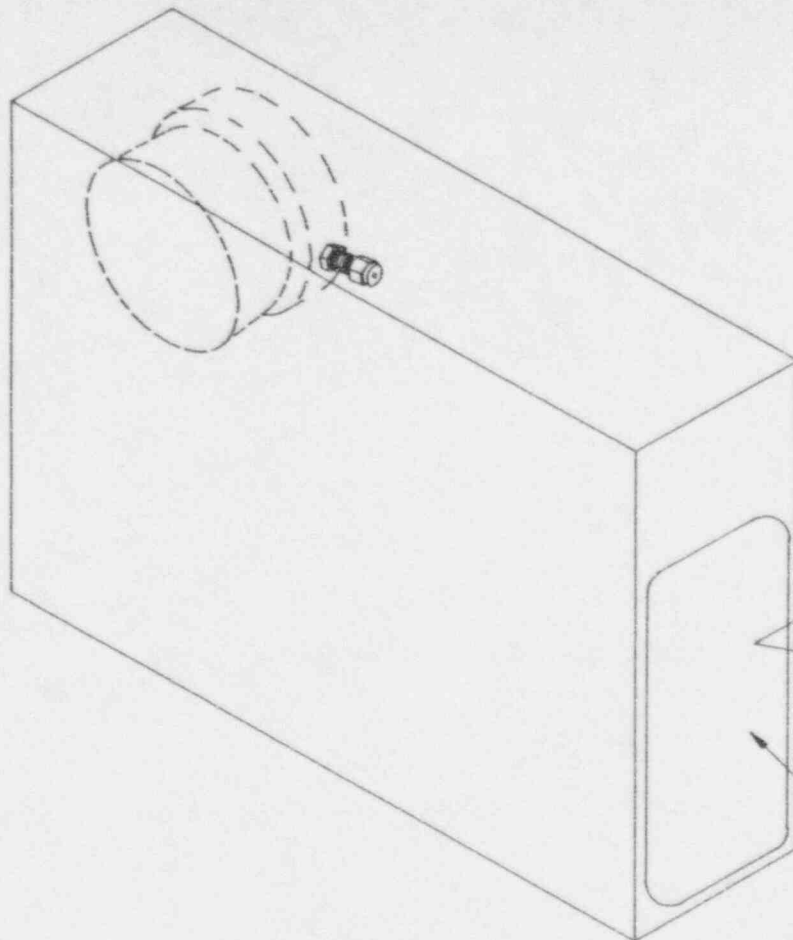
TITLE

ANALYTICAL BOX
PICTORIAL REPRESENTATION

SIZE	SHEET 1 OF 1	DWG NO	REV
A		MA-A-078	-


SYM	REVISION	DATE	BY	CHK

MA-A-079



- SEE DWG # LA-B-007

FIGURE C

DWG BY NDW	DATE 30/05/96		
CHK BY RMJ	DATE 03/06/96		
APPD BY WK	DATE 04.06.96		
SCALE NTS		TITLE ANALYTICAL BOX PICTORIAL REPRESENTATION	
		SIZE A	DWG NO MA-A-079 SHEET 1 OF 1 REV -

APPENDIX A

LEAK TEST RESULTS



Atomic Energy
Control Board

Commission de contrôle
de l'énergie atomique

Ottawa, Canada
K1P 5S9

DIRECTORATE OF FUEL CYCLE
AND MATERIALS REGULATION

Telephone: (613) 943-1568

January 31, 1996

N. Barton Radiation Protection Services
38 Auriga Drive
Suite 269
Nepean, Ontario
K2E 8A5

Dear Mr. Barton:

This is to inform you that your equipment and procedures have been assessed by Atomic Energy Control Board (AECB) staff and found to satisfy the criteria set out in regulatory guide R-116 (Requirements for Leak Testing Selected Sealed Radiation Sources). The name and location of your organization and the name of the appropriate contact person will be maintained in our database. This information will be provided to AECB licensed users of leak test services upon request and to applicants for new licences.

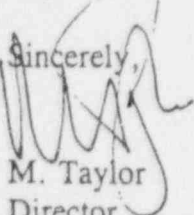
Please note that this is restricted to the isotopes specified in your submission, namely:

- | | | | |
|-----------|-----------|-----------|------------|
| 1. Co-60 | 4. Am/Be | 7. Am-241 | 10. Cd-109 |
| 2. Sr-90 | 5. Ir-192 | 8. Fe-55 | |
| 3. Cs-137 | 6. Cm-244 | 9. Ni-63 | |

Future re-assessments of your equipment and procedures will be done periodically. If future assessments continue to be positive, information on your organization will continue to be made available as described above. Future re-assessments will likely be coordinated with your regularly scheduled licence inspections.

If you have any questions regarding this matter, please forward them to the Materials Regulation Division at the above address.

Sincerely,


M. Taylor
Director

Materials Regulation Division

c.c.: CRO

ASG/MRD/96-0413

Canada

- 7 -

Fax/Télecopieur (613) 995-5086
Envoy AECBREG

WIPE TEST INFORMATION

CODE A	Initial test on complete Analytical Unit Counts/50 min 2096 paper Counts/50 min 2132 cotton swab	27 May 96
CODE B	Pressure test on Complete Analytical Unit Counts/50 min 2184 paper Counts/50 min 2024 cotton swab	27 May 96
CODE C	Pressure test IMS Counts/50 min 2119 paper Counts/50 min 2147 cotton swab	27 May 96
CODE D	Hammer impact test IMS Counts/50 min 2089 paper Counts/50 min 2016 cotton swab	28 May 96
CODE E	High temperature test IMS Counts/50 min 2040 paper Counts/50 min 2139 cotton swab	28 May 96
CODE F	Low temperature test IMS Counts/50 min 2103 paper Counts/50 min 2073 cotton swab	29 May 96
CODE G	Drop test IMS Counts/50 min 2213 paper Counts/50 min 2077 cotton swab	29 May 96
CODE H	History test complete Analytical Unit plus exposed surface of IMS Counts/50 min 2123 paper	29 May 96

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code A - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2096

E = detector efficiency: .003

Activity (Bq) < 18.7 =
$$\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code A - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2132

E = detector efficiency: .003

Activity (Bq) ≤ 18.7
$$= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$$

Conclusions: $<$ the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code B - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2184

E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code B - 2

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2024

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code C - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2119

E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code C - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2147

E = detector efficiency: .003

Activity (Bq) < 18.7 = $\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code D - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2082

E = detector efficiency: .003

Activity (Bq) $\leq \frac{18.7 \text{ counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code D - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2016

E = detector efficiency: .003

Activity (Bq) < 18.7 = $\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code E - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2040

E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code E - 2

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2139

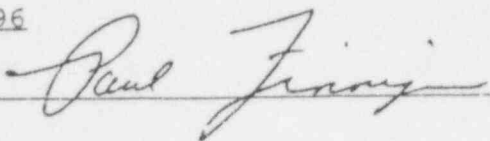
E = detector efficiency: .003

Activity (Bq) < 18.7 counts - bkgd.
= $\frac{\quad}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.

Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8

AECB Lic.#: 5-10813-98

Telephone#: 613-224-9939

Contact Person: Al McEachern

MEASURER

Name: P. Finnigan

Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8

Telephone: (613) 731-0643

Sampling Date: May 27, 1996

Sample I.D.: Code F - 1

Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler

Background (counts/50 min.): 2065

Sample (counts/50 min.): 2103

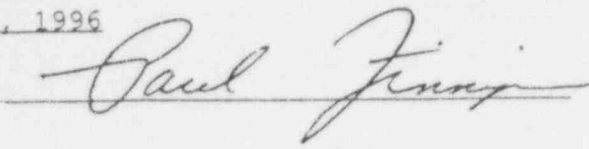
E = detector efficiency: .003

Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code F - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2073
E = detector efficiency: .003
Activity (Bq) $\leq \frac{18.7 \text{ counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code G - 1
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2213
E = detector efficiency: .003
Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 27, 1996
Sample I.D.: Code G - 2
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2077
E = detector efficiency: .003
Activity (Bq) ≤ 18.7 $= \frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: 

Leak Test Measuring Certificate

LICENSEE

Co.Name: CPAD Technologies Inc.
Address: 40 Camelot Drive, Nepean, Ontario K2G 5X8
AECB Lic.#: 5-10813-98
Telephone#: 613-224-9939
Contact Person: Al McEachern

MEASURER

Name: P. Finnigan
Address: 1612 Drake Avenue, Ottawa, Ontario K1G 0L8
Telephone: (613) 731-0643
Sampling Date: May 29, 1996
Sample I.D.: Code H
Date of last calibration and verification check: May 1, 1996

MEASUREMENT

Measuring method: HP-260 probe with scaler
Background (counts/50 min.): 2065
Sample (counts/50 min.): 2123
E = detector efficiency: .003
Activity (Bq) ≤ 18.7 $\frac{\text{counts} - \text{bkgd.}}{3000 \text{ sec} \times E}$

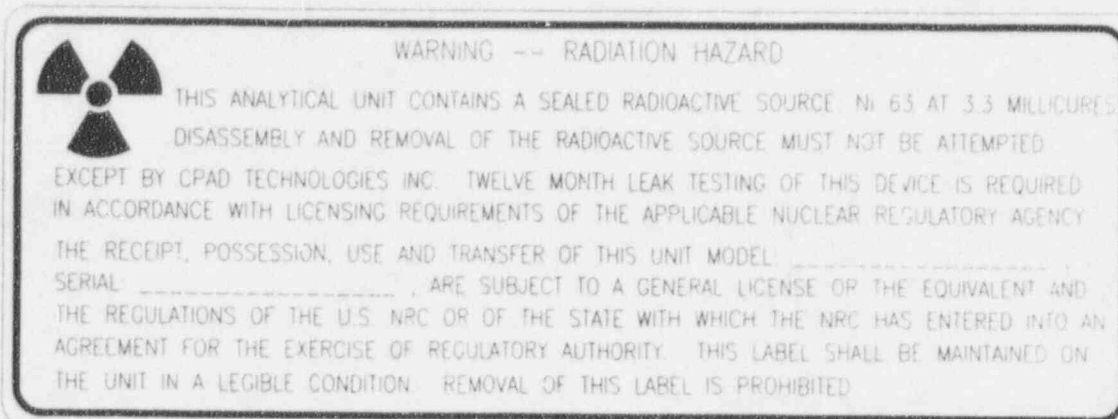
Conclusions: < the AECB leak test criteria of 200 Bq

Actions: None required

Measuring Date: May 30, 1996

Signature of Measurer: Paul Finnigan

APPENDIX B



IMPORTANT

Before operating this system, check to ensure:

- 1) A copy of the leak test results have been included as part of the documentation with the system.
- 2) A copy of the U.S. NRC regulation part 10 CFR section 31.5 is included with the documentation.
- 3) A label containing the same words as depicted above is affixed to the device or on some other visible part.
- 4) The device has not been damaged from shipping.

If any of the above items are missing or the device appears damaged, **DO NOT OPERATE** the system, and contact CPAD Technologies Inc. office in the U.S. at 508-636-6944.

For further instructions on leak testing and servicing refer to the section entitled "Radioactive Device" contained in this manual.

LICENSE FEE REQUIREMENTS

ATTN: S. Kimberley 9-9810
LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001
301-415-6026CPAD Technologies, Inc.
ATTN: A.L. McEachern
Director, Business Development
66 Slater Street, 6th Floor
Ottawa, Ontario K1P 5H1

TYPE OF ACTION

- ☒ NEW LICENSE
☐ RENEWAL OF LICENSE
☐ AMENDMENT TO LICENSE

REQUESTED DATE

6-20-96

LICENSE NUMBER

NEW APPLICATIONS

CONTROL NUMBER

123411 and 123410

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3B	\$ 1,200.00	\$	\$
3J	\$ 4,400.00	\$	\$
9A	\$ 3,400.00	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE \$ 9,000.00
PAYMENT RECEIVED \$
AMOUNT DUE \$ 9,000.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE - LICENSE FEE ANALYST

Sandra Kimberley

LFDCB

sk

7/24/96

LFDCB

Distribution:

CC/DH/KF/RB S/F (LF-3.2.2)
R/F
CC: S. Kimberley HQS

DATE

7/24/96

NRC FORM 877
(1-95)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSE FEE REQUIREMENTS

ATTN: S. KIMBERLEY T-9240
LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20548-0001

301-415-6096

CPAD Technologies, Inc.
ATTN: A.L. McEachern
Director, Business Development
66 Slater Street, 6th Floor
Ottawa, Ontario K1P 5H1

TYPE OF ACTION

- ☒ NEW LICENSE
☐ RENEWAL OF LICENSE
☐ AMENDMENT TO LICENSE

REQUESTED DATE

6-20-96

LICENSE NUMBER

NEW APPLICATION'S

CONTROL NUMBER

123411 and 123410

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3B	\$ 1,200.00	\$	\$
3J	\$ 4,400.00	\$	\$
9A	\$ 3,400.00	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE \$ 9,000.00
PAYMENT RECEIVED \$
AMOUNT DUE \$ 9,000.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(e).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE -- LICENSE FEE ANALYST

Sandra Kimberley

LFDCB

sk

7/24/96

LFDCB

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____

☐ Your request was combined, prior to review, with your _____ request, Control No. _____

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

☐ INSUFFICIENT FUNDS

☐ ACCOUNT CLOSED

☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

Distribution:

cc: S. KIMBERLEY S/P (L-3-2-2)
A/E

DATE

7/24/96

For CPAD
Technologies, Inc.

AGISS POWER TECHNOLOGIES CORPORATION

130 ALBERT STREET, SUITE 200
OTTAWA, ONT. K1P 5G4
(613) 230-0609 FAX: (613) 230-3805

0179

PAY TO
THE ORDER OF

U.S. Nuclear Regulatory Commission
Nine thousand

U.S. FUNDS

THE TORONTO-DOMINION BANK
COMMERCIAL BANKING CENTRE
106 SPARKS ST.
OTTAWA, ONT. K1P 5S8

3J (4,400)
Jul. 8

AGISS POWER TECHNOLOGIES CORPORATION

100
DOLLARS

\$ 9000.00
US

ANQUS APP

3B 81200
Jul. 8

FOR NRC license

9A 83,400 PER
Jul 96 USD

⑈0000179⑈ ⑈32326⑈004⑈ 0260⑈736625⑈

Michael Donney

NRC FORM 595
(9-95)

U.S. NUCLEAR REGULATORY COMMISSION

ARTICLE NUMBER (Shipper's Tracking Number)

**INCOMING EXPRESS ACCOUNTABLE
MAIL DELIVERY**

7287492693

DATE RECEIVED

ADDITIONAL TRACKING NUMBER(s) (if applicable)

9/25/96

TYPE OF MAIL DELIVERY

☐ EXPRESS MAIL (USPS)

☐ UPS

☐ OTHER (Specify)

☐ FEDERAL EXPRESS

☒ DHL

☐ AIRBORNE

**TOTAL NUMBER OF
PACKAGES**

1

ADDRESSED TO:

MAIL STOP

RECEIVED BY (Printed Name)

Brian Smith TSFS

x CHARLOTTE ESTED

FROM:

ontario
Canada -

SIGNATURE

DATE

x Charlotte Estd

9/25/96

DELIVERED BY

DATE

PD

9/25/96

NRC FORM 595 (9-95)

7294732045



Customs Invoice / Shipment Air Waybill
Facture des Douanes / Connaissance aérien de l'envoi
(Non négociable) - (Non négociable)

7287492693

ORIGIN/ORIGINE
YOWDESTINATION
G A I

1 From (Sender) Expéditeur

Account no./N° de compte

970078531

Sender's name/Nom de l'expéditeur
D. Harley

CPAD TECHNOLOGIES INC

66 SLATER STREET
6TH FLOOR

OTTAWA, ONT CANADA

Postal code/Code postal
K1P 5H1

2 To (Receiver) Destinataire (receptionnaire)

US Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD mail stop T8F5

Phone/Fax/Tel/Fax specify one
20852-2739Contact person/Personne-ressort
Brian SmithSender's authorization and signature/Autorisation et signature de l'expéditeur
D. Harley

Two signature must first, a standard form, apply to this shipment and then DHL's security - The Warsaw Convention may also apply (see reverse)
Deux signatures doivent d'abord, un formulaire standard de DHL, s'appliquer à cet envoi et ensuite la Convention de Varsovie peut aussi s'appliquer (voir l'envers)
Two signatures must first, a standard form, apply to this shipment and then DHL's security - The Warsaw Convention may also apply (see reverse)
Deux signatures doivent d'abord, un formulaire standard de DHL, s'appliquer à cet envoi et ensuite la Convention de Varsovie peut aussi s'appliquer (voir l'envers)

PRINTED IN USA

Quote this shipment number in an enquiry/Indiquez ce numéro d'envoi lors d'une demande



3 Shipment details Détails sur l'envoi

Not all payment and service options are available in all countries
Certaines options de paiement et de service ne sont pas disponibles dans tous les pays

Services

DOCUMENT

- ☐ WORLDWIDE PARCEL EXPRESS
All orders, declare the value of the goods
☐ EXPRESS DOCUMENT Max. 250gm
DOCUMENT EXPRESS 250 g max
☐ WORLDMAIL
☐ OTHER SERVICE
AUTRE SERVICE

Transport charges Frais de transport

2 LR bills apply (see back) - Charges
2 copies apply (voir l'envers)
Transport collect Transport port du

- ☒ Sender/Expéditeur
☐ Cash/Check/Credit Card
Compte/Chèque/Carte de crédit
For approved customers only
Pour clients approuvés seulement
☐ External Billing Ag. demand
Entente de facturation externe
☐ Transport collect Transport port du

Shipment insurance see reverse
Assurance sur l'envoi voir l'envers

Full description of contents/Description complète du contenu

documents

Country of manufacture
Pays de fabrication

International Worldwide Parcel Express shipments only/Envois Worldwide Parcel Express à destination internationale

Declared value
Valeur déclaréeSender's VAT/GST No.
N° de TPS-TVA de l'expéditeurHarmonized commodity code if applied
Code harmonisé de marchandises le cas échéantReceiver's VAT/GST No. or EIN/SSN
N° de TPS-TVA ou EIN/SSN du destinataireType of export
Type d'exportation

Declaration duties Taxes à l'importation

Retain at destination
Garder à destinationRepair/Repair return
Réparation/RetourTemporary
TemporaireOther
Autre

4 Size and weight Taille et poids

No. of pieces
Nbre de pièces

1

Weight/Poids

5 kg

Dimensions cm L x W x H
Dimensions cm L x W x HVOLUMETRIC/CHARGED WEIGHT
POIDS VOLUMÉTRIQUE/FACTURE

CODES

CHARGES-FAIS

Special Services

Special Services

Insurance Assurance

Insurance Assurance

Other VAT - Autre TVA

Other VAT - Autre TVA

CURRENCY CODE
CODE DE DEVISE

TOTAL

TRANSPORT COLLECT STICKER NO
TRANSPORT RETOUR DU N°PICKED UP BY
RÉCUPÉRÉ PAR

Route No.

Time

Date

VK302

9/24/96

Destination Copy / Copie de Destination