



Applicant
Check No.
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Received By

5173 metacon Systems Co.
#10+3P
Amendment
3/15/85
Brown
transferred to
3P APP

February 21, 1985

Mr. Jack Davis
U.S.N.R.C.
Region I
631 Park Avenue
King of Prussia, Pa. 19406

Re: License #37-21226-01

Dear Sir,

At present Swank Metacon Systems Company is specifically licensed to possess, service and install nuclear gauging devices manufactured by Laboratorium Prof. Berthold (West Germany) designated as Mould Level devices for the steel industry.

Since the submission of the original application naming Swank Metacon Systems Company as the licensee, a new Company has been formed called Berthold Systems, Inc. (BSI) which is a joint venture between Labor. Berthold and Wilder Deem Associates. BSI will now be taking over distribution and service of all Berthold nuclear gauging devices (which are presently in the process of registration). Swank Metacon Systems Company will act as a manufacturers representative for the marketing of Berthold devices that relate to the steel industry.

It was mentioned to me that a license cannot be transferred from one company to another without a specific statement of commitment by both companies - even though the principals, employees and location are the same as in the original application. Is this true and should we provide a statement?

THE AMENDMENT

On License:

A. Change
Item 1

From Swank Metacon Systems Company to
Berthold Systems, Inc. (BSI) (Same address)

Item 12 Amendment 01 (for clarification) should read
"Licensed material shall be used by, or under
the supervision and in the physical presence of
anyone of the following: James Mullen, Paul
Woods, George Vermillion, Rich Stiffey or James
Welsh."

RECEIVED BY LFMD

Date... 3/4/85
Log... March 12
By... Brown
Orig. To...

Action Compl

8512020163 850628
REG1 LIC30
37-21226-01

PDR

CORD COPY

ML10

03458

22 FEB 1985

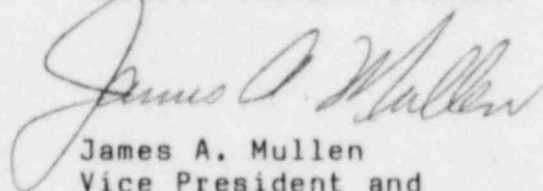
METACON SYSTEMS COMPANY

Item 7 Radiation Protection Officer - Please remove the name James Mullen and replace it with the name Rich Stiffey - refer to Attachment 1 for training and experience of Mr. Stiffey.

- Add: 1. By way of this letter we wish to inform you that Berthold Systems, Inc. has retained the services of James Welsh of Berthold Instruments, Inc. in the capacity of Radiation Specialist to assist and advise us in the areas of Applied Health Physics, licensing, training and compliance. In addition Mr. Welsh will provide a continual audit function of our Radiation Safety program. Refer to Attachment 2 for training and experience.
2. We would like License #37-21226-01 for possession and service not to be limited just to the steel industry, but reflect any industry that would use registered Berthold devices requiring specific licensing.
3. We are providing additional information in the form of procedures and training requirements requested at the enforcement meeting in January. (refer to letter and attachments dated February 18, 1985)

Sincerely,

METACON SYSTEMS COMPANY



James A. Mullen
Vice President and
General Manager

JAM/dc

Enc.

Check #5039 \$110.00

Attachment 1 - Training and experience R. Stiffey

Attachment 2 - Training and experience J. Welsh

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ATTACHMENT 1

Richard Stiffey - Radiation Training

Berthold Laboratories - June, 1983 Wildbad, West Germany

Gauges - Level Gauges

Sources - Cesium and Cobalt rod sources

Applied Health Physics Control of Ionizing and Non-ionizing
Radiation for Radiation Safety Officers
40 hour course - September 1984
Rockville, Md.

Berthold Laboratories January 1985 Wildbad, West Germany

Equipment - level gauges - level
switches, immersion tube, source
holders, density gauges, moisture
gauges, belt weighers, sulphur
analyzers.

Sources - Cesium and Cobalt rod and
point sources
Handling training - Curium and American
Point sources

All these training courses emphasized radiation protection,
radioactivity measurements, monitoring techniques, biological
effects of radiation and necessary mathematic calculations.

Experience: Berthold Labs
U. S. Steel - Lorain, Ohio CO-60 9.5 mCi
Armco - Ashland CO-60 16 mCi
LTV - Canton CO-60 3.8 mCi
Wheeling Pitt-Monessen CS 137 150 mCi

February 21, 1985

ATTACHMENT 2

Mr. Welsh training and experience is as follows:

A) Principal practices of radiation protection

Course: Applied Health Physics for scientists and
physicians

Time: 1 Semester

Where: Rutgers - Dr. R. Wynveen

B) Radioactivity measurements, standardization and monitoring
techniques and instruments.

Course: Applied Health Physics for Scientists and
Physicians

Time: 1 Semester 1972

Where: Rutgers Dr. R. Wynveen

C) Mathematics and calculations basic to the use of R.A.M.

1) Course: Applied Health Physics for Scientist and
Physicians

Time: 1 Semester 1972

Where: Rutgers Dr. R. Wynveen

2) Course: Radiation in the environment

Time: 1 Semester 1975

Where: Rutgers Dr. F. Haughey

D) Biological effects of radiation

1) Course: Applied Health Physics for Scientists and
Physicians

Time: 1 Semester

Where: Rutgers Dr. R. Wynveen

2) Course: Radiation in the environment

Time: 1 Semester

Where: Rutgers Dr. F. Haughey

Experience

1965 Packard Instruments, Inc.

6 month training in detection of beta, gamma isotopes
Isotopes employed ^3H , ^{14}C , ^{32}P , ^{36}Cl , ^{125}I ,
 ^{131}I , ^{137}Cs

Microcurie amounts

1971-1982 Ortho Diagnostic/Ortho Pharmaceutical Corp.
Corporate R.S.O. and Radiation advisor for J & J Corp.
affiliates. License specific of Broad Scope.

Architect and managed radiation protection program
Which included but not limited to the following:

- a) Training of users
- b) Monitoring of effluent areas and personnel
- c) Calibration
- d) Waste management
- e) Written procedures and programs
- f) Licensing

Isotopes employed:

H ³	500 mCi
C ¹⁴	200 mCi
I ¹²⁵	20 mCi
CR ⁵¹	1 mCi
P ³²	1 mCi
I ¹³¹	10 mCi
SR ⁹⁰	1 mCi

1983 International Nutronics (Cobalt sterilization)

R.S.O. (500 KCi facility)

Program included but not limited to:

- a) Transferring and replacing CO 60 rod sources 10,000
ci ea
- b) Surveys
- c) Water testing
- d) High level waste handling (decommissioning)
- e) Written procedures and programs
- f) Licensing
- g) Decommissioning - Attempted removal of source rods
from damaged holders - approx. 55 kilo curies
total - not successful due to logistics
- h) Managed radiation area Approx. 70 mr/hr
- i) Dose assessments

1984 Berthold Instruments Inc.

RSO and Technical representative for radiation protection
instruments

Licensing and H.P. Program