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FILE #136-93

TITLE HEADING: Site Plan Review - Alpha Spectra

LOCATION: 715 Arrowest Court

PETITIONER: Frank Wilkinson

PETITIONER'S ADDRESS/TELEPHONE:

715 Arrowest Court Grand Junction, CO 243-4477

PETITIONER'S REPRESENTATIVE: Frank Wilkinson

STAFF REPRESENTATIVE: Kathy Portner

NOTE: WRITTEN RESPONSE BY THE PETITIONER TO THE REVIEW COMMENTS IS REQUIRED. A PLANNING CLEARANCE WILL NOT BE ISSUED UNTIL <u>ALL</u> ISSUES HAVE BEEN RESOLVED.

CITY DEVELOPMENT ENGINEER	11/15/93
Gerald Williams	244-1591

No comment.

MESA COUNTY HEALTH DEPARTMENT	11/15/93
Perry L. Buda	248-6966

This source shall be required to submit an Air Pollution Emission Notice (APEN) to the Colorado Department of Health, Air Pollution Control Division as required per Regulation No. 3, Part A.II. of the Colorado Air Quality Control Regulations. Such pollutants to be considered may include lead, acid mists and volatile organic compounds (VOC's). If emission of these or other regulated pollutants are deemed to be less than the minimum reportable amounts, the Division shall respond to the applicant with a letter stating an exemption with any necessary fees to be refunded.

COMMUNITY DEVELOPMENT DEPAI	RTMENT 11/18/93
Kathy Portner	244-1446

- 1. The interior remodel of the existing building does <u>not</u> require bring the site up to Code in regards to landscaping.
- 2. The parking requirement is 1 space per employee on the largest shirt, plus one space for each vehicle used in operation of the business.
- 3. All requirements of the Building & Fire Codes must be met, as well as compliance with Health Department and Persigo requirements.

FILE #136-93 / REVIEW COMMENTS / page 2 of 2

GRAND JUNCTION FIRE DEPARTMENT	11/17/93
George Bennett	244-1400

Fire code requirements will be enforced during the building permit process.

COMMENTS HAVE NOT BEEN RECEIVED FROM THE FOLLOWING REVIEW AGENCIES:

City Utility Engineer Sewer District (Persigo) City Environmental Specialist City Attorney Mesa County Building Department

BUILDING DEPARTMENT	11/18/93
Bob Lee	244-1656

We have not approved the building for this specific manufacturing use. Portions of the building will be classified as an H occupancy and will have to be separated by fire-walls. Other items will be required based on a plan review of a complete set of plans and specs.

NO

P. 02/05

(303) Y244-1599

11-3-93 136 93 City Planning Department GRAND JUNCEIM, CO Dear MS. KATHY PORTNER: I am sending this inter mation so that you will be able to classity our ausiness that we are settens up at 715 ARPEWEST CT. GRAND JCT. 81505. Dur phone number at this address is 243-4477. Alpha Spectra Mann tachnes SCM till atim detectors. The main component of the altector is a syn thetically grown anystal there are many different types of material that are your we prover, at this Time are langely working u/ hat (Tel). This is the same matrical that goes into the "micro-R" notive that you see geogle walking around town within order to survey the back ground Gomma vaduation associated up URANIUM. Our manutactioning process consists of machining the Orystals mito deplement sizes and shypes. The Size and Shuge is did tated by the customers application. We work on the crystals in a dry (less than 170 R.H.) because the crystals hydrate at air mal room humidity, i.e. the surface of the wy stal melts and this degrades the putter mance the crystals are in ca related into metal nousing and then sealed with due

NOV-03-93 WED 13:07

P. 03/05

136 93

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Scintillation Detector Repair Services

Introduction

Scintillation detectors are expensive. You have invested a great deal of money in your detectors. When they fail, do not discard them! Put them back to use and save money. Alpha Spectra, Inc.'s scintillation repair laboratory provides both quality repairs and quick turnaround. If you are experiencing problems, give Alpha Spectra, Inc. a call.



- Poor resolution
- Hydration
- Loss of interface
- Noisy signal
- Intermittent signal
- No signal
- Fractured crystal

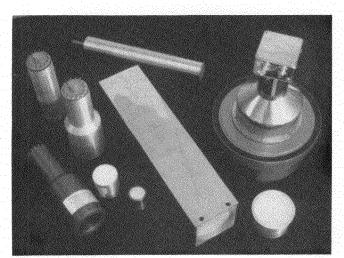
The Answer

Alpha Spectra, Inc.'s scintillation detector laboratory will carefully examine your detector and quote the cost of repair. We will repair the detector quickly. In addition, we can often improve the performance of the detector by utilizing recent technological advancements. Call and ask us for details on how to ship a detector safely.

The Result

Savings and a Guarantee

You save both time and money when you repair your detectors. After a repair, our laboratory provides a two year warranty against defects due to poor workmanship.



Alpha Spectra, Inc. has experience repairing a wide variety of scintillation detectors.

Experience

The scintillation detector repair team at Alpha Spectra, Inc. has a wide range of experience. Types of units repaired include:

- 8" x 4" NaI(Tl) detectors
 4" x 4" x 16" NaI(Tl) detectors
- 3" x 3" NaI(Tl) detectors
- 3" x 3" NaI(TI) well detectors
- 5" x 1" NaI(TI) detectors
- F.I.D.L.E.R. probes
- 2" x 12" CsI(Na) detectors
- Other detectors.

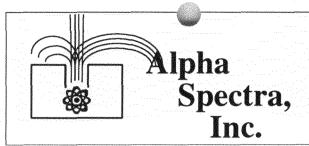
About Our Company

Alpha Spectra, Inc. was founded in 1986. Our company is owned and operated by a nuclear physicist with over fifteen years experience in nuclear radiation measurements. Our professional staff is prepared to answer your questions about the design and repair of scintillation detectors.

Product Line

Alpha Spectra, Inc. also supplies new scintillation detectors. Please call us for more information about available sizes and geometries. If you have a prototype application, we will be glad to assist you in the design process.

Alpha Spectra, Inc.	 Scintillation Detector Laboratory Radon Analysis Laboratory Health Physics Consulting
Your	Area Representative is:
Alpha Spectra, Inc.	1315 Nelson Street, Unit #8 Lakewood, Colorado 80215 1-800-231-2545 303-232-2545 fax 303-232-2683



Scintillation Detector Product Line

Introduction

Alpha Spectra, Inc.'s scintillation detector team has over fifteen years experience working with scintillation crystals. Working experience includes both large and small units. Detector applications include high energy physics, nuclear medicine, geophysical applications (well logging and aerial surveys), waste monitoring, health physics, academic research, and routine gamma survey equipment.

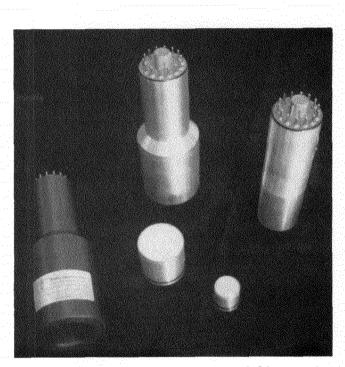


All of Alpha Spectra, Inc.'s scintillation crystals are assembled in our laboratory located just outside of Denver, Colorado. We purchase high quality blanks from crystal growers and we machine the crystals to your specifications. The detectors are assembled in a humidity controlled environment due to the hygroscopic nature of NaI(Tl) crystals. Available detectors include:

- Standard cylinders
- Standard rectangles
- Well detectors
- Thin entrance window detectors
- Mounted or demountable PMTs

Design and Assembly

Our scintillation detector services include both design and assembly of new units. If you have a unique application, we can assist with the design so that you will be assured that the performance is optimized.



Typical scintillation detectors available from Alpha Spectra, Inc.

About Our Company

Alpha Spectra, Inc. was founded in 1986. Our company is owned and operated by a nuclear physicist with over fifteen years experience in nuclear radiation measurements. Our professional staff is prepared to answer your questions about the design and repair of scintillation detectors.

Guarantee

Alpha Spectra, Inc. will repair or replace at no charge to our customer any detector that fails due to failure of hermetic seal, poor workmanship, or defective materials. This guarantee is extended for two years from the date of shipment from Alpha Spectra, Inc. The photomultiplier tube manufacturers' warranties are extended from the date of shipment from Alpha Spectra, Inc.

Repair Services

Alpha Spectra, Inc. will carefully examine your defective detector and quote the cost of repair. Call and ask us about this service.

Alpha
 Scintillation Detector Laboratory
 Radon Analysis Laboratory
 Health Physics Consulting

Your Area Representative is:

Alpha Spectra, Inc.

1315 Nelson Street, Unit #8 Lakewood, Colorado 80215 1-800-231-2545 303-232-2545 fax 303-232-2683

Manufacturing Process Discussion

Alpha Spectra's crystal manufacturing operations can be divided into three separate major groups: crystal growth, crystal cutting and assembly, and final detector test. There are also other support operations such as design, research and development and customer service. To date Alpha Spectra has not grown crystals, all material that has been used to manufacture detectors has come from other sources.

There are three main components to the scintillation detectors that we manufacture:

- the NaI(tl) crystal
- the machined hardware
- the photomultiplier tube.

Crystal Growth: The chemicals materials that are used to grow the NaI(Tl) crystals are NaI and TlI. The NaI and TlI are loaded into the furnace along with previously grown material that is being recycled. The crystal growth process is started by loading a crucible into an electrically resistive furnace. The furnace is then prepared for the one month growth cycle by pumping down the furnace with vacuum pumps.

After the furnace is completely evacuated, the temperature is brought up to approximately 750 degrees centigrade so that the salt becomes a molten liquid. The furnace is designed in such a way that the outer surface can be touched during the growth process.

At the end of the growth process the furnace is pumped down again to remove noxious fumes. These fumes are trapped in either a cold trap or charcoal filter system. The furnace is then opened up while the ingot is still hot. The ingot is then transferred to the annealer. The ingot is then annealed for about three weeks at 300 to 400 degrees centigrade.

After the annealing process is completed the crystal can then be sawn or machined. The machining process is not much different than machining that would be done to a piece of plastic or metal.

Once a piece of NaI(Tl) is machined it is then ready to be housed in a hermetically sealed container. The container provides a moisture barrier so that the crystal will not hydrate. Since the NaI(Tl) material is very sensitive to moisture the assembly process must take place in a dry environment. We will construct a dry room to facilitate this need. All work that is done on the crystal before it is hermetically sealed with epoxies will be done in the dry room area.

Once assembly is completed the detector is tested to verify that it meets customer specifications before shipment.

Waste Generation

Alpha Spectra's process waste stream beyond the typical wastes that are generated by any business (e.g. paper products) is as follows:

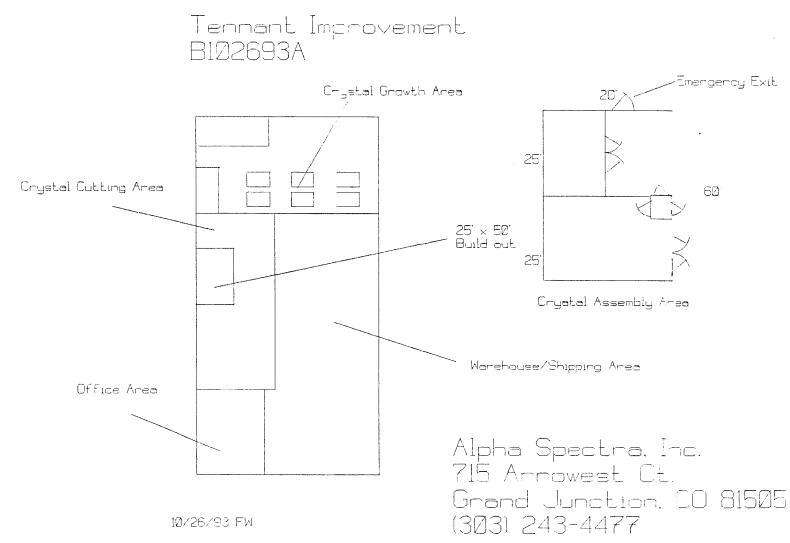
Solids/Liquids

1. NaI(Tl) sludge generated in the machining process.

2. Excess epoxies (<100 g/day), silicones (<100 g/day), aluminum oxide (<100 g/day), magnesium oxide (<100 g/month), titanium oxide (<100 g/month), hydrochloric acid - neutralized (5 liters/month).

We have been storing all sludge that has been generated to this date in time. During storage the oil and NaI(Tl) separate so that the oil can be reused during the cutting and machining processes. The remaining sludge (approx. 25-50 kg/month) will be returned to the vendor for reprocessing.

The remainder of the solids and liquids will be sent to a sanitary landfill unless local requirements dictate otherwise.



Alpha Spectra, Inc. 715 Arrowest Ct. Grand Junction, CO 81505 (303) 243-4477

November 7, 1993

City of Grand Junction Fire Dept. Attn: Mr. George Bennett 330 South 6th Street Grand Junction, CO 81501

Dear Sir:

This information is being provided in order that Alpha Spectra, Inc. will be provided the necessary permits to operate its manufacturing facility at 715 Arrowest Ct., Grand Junction, Colorado. As I have explained to you in a previous conversation Alpha Spectra has already moved into the facility. The building department has approved the building for use as a manufacturing facility as we propose contingent upon your approval. The information provided here should assist your department in evaluating the processes that are involved in our manufacturing.

Specifically the following information is provided for your review:

1. Product Description: The radiation detectors that we manufacture are used in many different applications. A brief description is given regarding the different uses.

2. Manufacturing Process: A narrative is given that explains what steps are involved in the production of the crystals that are used as radiation detectors. When possible, photos are used to demonstrate these steps.

3. Material Safety Data Sheets: We have provided for your reference our set of material safety data sheets. As this is our only set we will want to have these documents returned as soon as possible. In addition, we have tabulated the current use and projected use based on anticipated growth over the next two years.

I would personally like to reassure you that Alpha Spectra, Inc. desires to comply with all pertinent regulations. **Product Description:** The radiation detectors that Alpha Spectra, Inc. manufactures consist of NaI(T1), CsI(Na), or BGO crystals. These crystalline materials have the property that when incident radiation strikes them they give off low level amounts of light. This light is measured by photosensitive devices. The associated electronics used is capable of determining the energy and the amount of radiation that struck the crystal.

These detectors are used in nuclear medicine departments in hospitals, nuclear power plants, hand held survey instruments, oil exploration, research done in outer space, by the defense department, and in academic research.

Manufacturing Process: The manufacture of crystals used in radiation measurements starts with the growth of the crystal. The crystals are grown in electrical furnaces that approach 750 degrees C. The growth material is placed in a crucible and heated to temperatures above the melting point of the salt. Typically the growth cycle lasts about one month. After the growth cycle, the ingot is transferred to an annealing furnace. The annealing process removes both mechanical and thermal stresses in the crystalline ingot by cycling the temperature around 300 degrees C. The process is completed in three weeks.

Each furnace is equipped with a refractory that is surrounded by a stainless steel housing and contains a water jacket that is kept near room temperature.

After the crystal ingot is grown, it is cut, machined and packaged according to customer specifications. The packaging process must be done in a very dry environment (less than 1% R.H.) since the crystal material is hygroscopic. (This means that the material has a high affinity for moisture, in the same way that a dessecant takes on moisture.

Alpha Spectra's main competitor is located in Newbury, Ohio, near Cleveland. The company is called Bicron Corporation.

A drawing showing the proposed plant layout is attached.

Material Safety Data Sheets: The accompanying book contains the MSD sheets for the materials that we are currently using. Tabulated below are the approximate amounts that we currently have in use. -page three-

Material	Amount
Calcined alumina Aluminum oxide Silicone compounds Reagent alcohol, absolut Optical coupling compour Titanium dioxide Epoxies - Grace Calcined magnesia Acetone Hydrocarbons > 410 deg.	nd 1 qt. 5 lbs. 2 gals. 75 lbs. 2 gals.
flash point Lead NaI(Tl)	t 10 gals. 1500 lbs. 8,000 lbs. (approx.)- Viny hazardous when heated- 8,000 lbs. (approx.)- mits hazardous gas - und be Contained

If there is any other information that I can provide to assist you in this process please do not hesitate to call me at 243-4477.

Sincerely,

Frank Will

Frank Wilkinson III, M.S. President Alpha Spectra, Inc.

Attachments

COMMUNITY DEVELOPMENT DEPARTMENT

MEMORANDUM

TO: Review Agencies

FROM: Kathy Portner, Community Development Department

DATE: November 10, 1993

RE: Attached Development Proposal

Alpha Spectra, Inc. is proposing to occupy an existing building located at 715 Arrowest Ct. which is in an industrial subdivision recently annexed into the City. The zoning is I-1, light industrial. The existing site around the building is in asphalt or concrete surface. The only modifications to the site proposed are interior modifications to the existing building. Because of the unique nature of the business and the processes they use we are requesting a higher level of review than would normally be required for an interior remodel. Please review the proposal and comment on any requirements your agency might have for this type of industry. We do not have a use category in our Use/Zone Matrix that fits this proposal and are looking for guidance from the review agencies as to whether you would consider this a light industrial use or a heavy industrial use.



(800) 231-2543 (303) 243-4477 Fax (303) 244-6947

Frank Wilkinson III, M.S. Nuclear Physicist President 715 Arrowest Court Grand Junction, CO 81505

November 19, 1993

City of Grand Junction, Colorado Attn: Ms. Kathy Portner Department of Community Development 250 North Fifth Street Grand Junction, CO 81501

Dear Ms. Portner:

This letter is being sent in response to your fax of November 18 regarding file #136-93, Alpha Spectra Inc. building improvement proposal. I would like to thank you for giving your immediate attention to these matters over the past few days. I would like to reassure you that my company wants to satisfy all regulatory concerns.

The following comments are in response to your fax.

Mesa County Health Dept. and Colorado Department of Health Offices (Scott Miller): I have contacted Mr. Miller several times over the past few months. He advises us that we will have to file for an emissions permit. Based on the information that we have exchanged over the phone we may not have to have a permit.

Community Development Department: Alpha Spectra currently will employ about four or five employees here in Grand Junction. There is adequate space for parking for this many employees.

Persigo Sewer District: Mr. Dan Tonello visited our facility this morning and he has stated that since we are recycling our process waste he has no immediate concerns. We also talked about what effluent we will have when the growth operation is operating. He stated that we should contact his office again in about April once the project is nearer to completion. He stated that if we neutralize the small amounts of acids that we will be using there should be no problems.

Grand Junction Fire Department: We will be working with Mr. George Bennett of the Fire Dept. to ensure that all fire codes Once again thank you for your immediate attention to these matters.

Sincerely,

Winh Wilkinson III, M.S. President Alpha Spectra, Inc.

To: Kathy Portner From: Dan Tonello Subject: Alpha Spectra Inc. Date: 11/19/93 Time: 12:10p

Dear Kathy

As a result of the Industrial Inspection preformed at Alpha Spectra on 11/19/93, it is this departments determination that this industry does not need an Industrial Discharge Permit. This industry will not be discharging any waste flow other than domestic.

Mr. Wilkinson was informed that he will be required to contact this office in regard to any major process changes.