

July 18, 2006

17-35726

Attn: Materials Licensing Branch U.S. NRC, Region III 2443 Warrenville Rd – Suite 210 Lisle, IL 60532-4351

Subject:

: Request for Amendment to Nuclear Materials License No. 24-32318-01

Dear Mr. Mullauer:

On July 12th 2006, Pangea Group (Pangea) was the subject of an unannounced inspection by Ms. Deborah A. Piskura, of the Materials Inspection Branch. Over the course of the inspection, she noted that there were two items on our Nuclear Materials License, No. 24-32318-01, which required updating. This letter has been written in response to those observations; to update the license to correctly reflect the personnel and locations involved in its administration. Both observations made by Mr. Piskura have been identified and addressed below:

Observation 1

Section 10 indicates that byproduct material may be analyzed at 743 Spirit 40 Park Drive, Suite 232, Chesterfield, Missouri, but this is no longer the case.

Response

On July 19, 2004 Pangea submitted a request for amendment to its license in order to reflect the change in address of the corporate office. The address in section 2 was correctly changed to Pangea's new corporate address of 2604 S. Jefferson, St. Louis, MO 63118. Unfortunately, the address in section 10 was not also updated. This has been addressed by the enclosed Form 313.

Observation 2

Section 11(B) lists Daniel Hoffman as the Radiation Safety Officer for the license, but is no longer employed by Pangea. While you (Matt Cushman) are the acting as the interim RSO, the license needs to be amended to indicate the identity of the current RSO.

Response

This has been addressed by the enclosed Form 313. Matthew Cushman will be the Radiation Safety Officer for the License. His resume has been included and reflects the both his qualifications and his wide variety of experiences in administering a radiation safety program and it's associated license requirements.

REC'D JUL 1 8 2006

2604 SOUTH JEFFERSON AVENUE + ST. LOUIS, HO 63118-1505 . PHONE: (314) 333 0600 . FAX: (314) 333 0601 . WWW.PANGEA-OROUP.COM

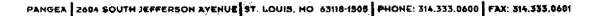
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The requested license amendment herein should address any concerns prompted by the recent inspection of Ms. Piskura. If any further information is needed, please do not hesitate to contact me at one of the numbers listed below.

Respectfully Submitted

Matthew Cushman. Director of Radiological Services Pangea Group 314-333-0601 (direct) 314-657-8182 (mobile)

Enclosures: Form 313 Resume – Matthew Cushman



NRC FORM 313 10-2005) 10	Estimated burden per response to comply with this mandatory collection reque hours, submittal of the application is necessary to determine that the appli- qualified and that adequate procedures totist to protect the public health and Send comments regarding burden estimate to the Records and POW/Privacy 3 thranch (17-6 F53). U.S. Nuclear Regulatory Commission, Washington, DC 20565 or by Internet e-mail to Infocollecta@nrc.gov, and to the Desk Officer. Of Information and Regulatory Affairs, NEOB-10202 (3750-0120), Office of Menag and Budget, Washington, DC 20303. If a means used to impose an infor collection does not display a currently valid OMS control number, the NRC n conduct or sponsor, and a person is not required to respond to, the infor collection.
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U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	
	MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	2442 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352
IF YOU ARE LOGATED IN:	
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, Kentlicky, Maine, Marylano, Massachusetts, Mississippi, New Mampshire, Nev	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAB, IDAHO, KANBA N LOUISIANA, MONTANA, MEBRASKA, NEVADA, NEW MEXICO, NORTH DAROTA, OKL
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1. THIS IS AN APPLICATION FOR (Check appropriate Nem)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZiP code)
A NEW LICENSE	Pangea Group
	2604 S. Jefferson
S. AMENDMENT TO LICENSE NUMBER 24-32318-01	St. Louis, MO 63118
C. RENEWAL OF LICENSE NUMBER	
3. ADDRESS WHERE LIGENBED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
Multiple locations. Radiological services may be performed at	
various temporary sites located in the United States.	Matthew Cushman
tenous temporary sites located in the orited otates.	
	TELEPHONE NUMBER
	(314) 333-0601
SUBMIT ITEMS 5 THROUGH 11 ON #-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORM	
6. RADIDACTIVE MATERIAL	
a. Element and mass number; b, chemical and/or physical form; and c, mattimum emount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.
 NDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE. 	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREA
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSE FEES (See 10 OFR 170 and Section 170.31)
	PEE CATEGORY AMOUNT \$ 0.00
 CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS TH UPON THE APPLICANT. 	AT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BIND
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF	THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED
	4, 35, 36, 59, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND
CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34	
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Form 313 – continued

License No. 24-32318-01

July 18, 2006 Application for License Amendment

Pangea Group

ITEM 5 - RADIOACTIVE MATERIAL

No changes requested

ITEM 6 - PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

No changes requested

ITEM 7 - INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE

Pangea requests that section 11.A. be changed to read:

"Decommissioning and commercial leak testing activities shall be performed by, or under the supervision of Matthew Cushman, Scott Rehmer, Lachelle Telfair, or Chris Jarrel."

Pangea requests that section 11.B. be changed to read:

"The Radiation Safety Officer for this license is Matthew Cushman."

ITEM 8 - TRAINING FOR INDIDIUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

No changes requested

ITEM 9 - FACILITIES AND EQUIPMENT

Pangea requests that the final sentence of section 10 be changed to read:

"Licensed material listed in Subitem 6.B. may also be analyzed at the licensee's facility located at 2604 S. Jefferson, St. Louis, Missouri."

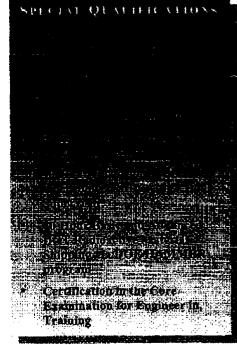
ITEM 10 - RADIATION SAFETY PROGRAM

No changes requested

ITEM 11 - WASTE MANAGEMENT

No changes requested

MATTHEW E. CUSHMAN



DIRECTOR OF RADIOLOGICAL SERVICES

Pangea Group – St. Louis, MO (March 2006 – Current) Director of Radiological Services

Currently responsible for the management of 20+ service professionals in various health physics, environmental, and worker safety roles throughout Pangea, on contracts serving 6 states.

- Site Radiation Safety Officer / Project Manager for a Magnesium-Thorium remediation project in Madison, IL.
- Responsible for reviewing site-specific project plans and evaluating radiation safety, industrial safety, and HAZMAT transportation and disposal issues.
- Responsible for maintenance of Pangea radiological and industrial hygiene instrumentation program.

K2 Environmental Services (May 2005 – March 2006) Criticality Safety and Materials Control and Accountability Supervisor

- Responsible for maintaining compliance with the criticality and MC&A sections of the Westinghouse NRC license.
- Oversaw the development and implementation of multiple Nuclear Criticality Safety Evaluations.
- Responsible for maintaining and updating Criticality and MC&A procedures to support decommissioning activities while maintaining compliance with the requirements of all Westinghouse corporate programs.
- Supervised the execution of the annual MC&A inventory process.
- Developed a survey methodology to establish loading of fissile material

throughout the plant ventilation system.

• Responsible for performing daily criticality inspections and providing direct field support for decommissioning activities

Pangea Group - St. Louis, MO (1998 - May 2005)

Radiological Engineer

Provided health physics and project supervision, radiological engineering, waste brokerage, regulatory compliance, and direct field support for various projects, including:

- Developed the plans for and supervised the completion of a MARRISM complaint scoping and characterization survey for decommissioning of a magnesium-thorium processing facility in Madison, IL.
- Radiation and Environmental Safety Officer for a former USAF site in Waco, TX. Project scope included removal, characterization, and disposal of burial cylinders and other Ra-226 bearing wastes.
- Project Manager for a removal, transportation, and disposal project at Weldon Spring Remedial Action Project. Wastes
 included uranium contaminated soil sediments, ion exchange resin, and other demolition and remediation generated wastes.
- Led a survey/sampling crew for characterization/verification at SLAPS and SLEDS FUSRAP sites and vicinity properties.
- Characterized legacy wastes and sources at Washington University in St. Louis, MO.
- Approved Waste Broker for Joint Munitions Command, Rock Island, IL.
- Characterized and coordinated transport and disposal of Mg-Th wastes from a St. Louis area equipment/salvage yard.
- Provided transportation and disposal for Ra-226 wastes for Michigan Department of Environmental Quality.
- · Performed audits of radiological protection program at St. Louis area nuclear medicine facility.
- Performed Commercial 8-br HAZWOPER (29 CFR1910.120) refresher training.
- Assistant Site Trainer for DOE Weldon Spring Remedial Action Project.

Westinghouse Rematite Facility-Festus, MO

Waste Management Coordinator and Site RSO

- Responsible for coordinating air sampling program, determining and assigning radiological exposures to project personnel.
- Acting Pangea Superintendent, responsible for all on-site Pangea personnel and contract related expenditures.
- Project MT&E Administrator-Responsible for all project radiological, safety, and industrial hygiene instrumentation.
- Responsible for the design of MARSSIM compliant final status surveys and author of final status survey report.
- Responsible for coordinating radiological release surveys for segregated wastes and maintaining radiological waste inventories for Volumetric Clearance for Disposal (VCD).

St. Louis FUSRAP HISS Pile Removal Project-Berkeley, MO Radiological Transportation/Disposal Coordinator

- Served as liaison for USACE, rail carrier, disposal facilities for shipment of radiologically contaminated soils.
- Maintained compliance with DOT regulations and USACE guidelines for radiological shipments.
- Provided oversight for sampling of soils for radiological analysis and radiological surveys of gondola cars prior to shipment.
- Calculated and tracked activities, determined waste classifications, and generated waste manifests for radiological shipments.
- Maintained shipping records and waste manifest documentation via LOW-TRACK waste shipping software.

Weldon Spring Site-St. Charles, MO Radiation and Environmental Safety and Health Technician

- Coordinated offsite shipments of radiological soils, contaminated PPE and other low level radioactive and hazardous wastes, samples and surface contaminated objects.
- Conducted radiological sample screening and surveys for shipment of samples to on-site and off-site analytical laboratories.
- Responsible for the decontamination and release surveys of excess radiation instruments and worker protection equipment.

Allied Technology Group (9/98 - 11/98) ES&II Technician Weldon Spring Site Remedial Action Project-St. Charles, MO

- Monitoring, maintenance, calibration, and repair of portable radiological instrumentation.
- Responsible for field ES&H support, radiological surveys, and collection of radiological air and water samples.

EDUCATION

University of Missouri-Rolla

Bachelor of Science in Nuclear Engineering - 1998 Successfully Challenged the Engineer In Training Core Examination (Part 1 of 2 for the P.E.)
