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Memphis, TN 38103  
901-922-0660

March 4, 2013

Nuclear Regulatory Commission  
Region III  
Att: Bill Reichold  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Subject: Written Report as required by 10CFR sec.20.2201(2)(b)

An initial notification by telephone as required under 10CFR sec 20.2201(a)(ii) for the report of theft or loss of licensed material was made on 10/10/2012 to Edward Kulzer (630.829.9875), an inspector at the U.S. Nuclear Regulatory Commission (NRC). Subsequent notification was made to Bill Huffman at the NRC Operations Center on 11/6/2012 at the number noted in the regulation (301.816.5100). A report was generated by the NRC Ops Center on 11/6/12 as **NRC report # 48483**.

#### Background

Pinnacle Environmental received a call from the Nuclear Regulatory Commission in early July 2012 [Bill Reichhold 630-829-9839]. Companies that file bankruptcy are reviewed by the agency and they search their files for any items registered with the Commission. For registered items, a transfer of the license/registration is/was required when the equipment is moved to another facility or discarded. The agency has a process that requires follow-up for a company in bankruptcy to ensure that the registered/licensed items are not abandoned and a request was made for a determination of the disposition of those items registered to Pinnacle and Mesaba Airlines.

The following four (4) items were registered to Pinnacle/Mesaba Airlines as generally licensed devices and their current disposition/location is *unknown*.

#### Mesaba – Ion mobile spectrometers (Itemizer)

Itemizer (Nickel 63 source that detects explosives)      mCi = millicurie

Escanaba MI (ESC)	Serial # 1963 [10 mCi]
Muskegon MI (MKG)	Serial # 1993 [10 mCi]
Kincheloe MI (CIU)	Serial # 2007 [10 mCi]
Gwinn MI (MQT)	Serial # 2008 [10 mCi]

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Pinnacle's manager of security recalls that Mesaba bought the itemizers (for use in detecting explosives in passenger luggage) and subsequently turned them over to Northwest Airlines. A request for information and assistance in locating the devices was forwarded to Delta Airlines and after inquiring they responded that they have no knowledge of the itemizers.

Additionally, the NRC Inspector gave the name of a responsible person from what was formerly Northwest Airlines as Jay Robinson, 604-248-2904. That number now belongs to a company called Paper Excellence and they have no knowledge of Mr. Robinson. Northwest Airlines completely merged with Delta Airlines in January 2010.

#### **Pinnacle/Mesaba Tritium light comparator devices, model DB45**

The following seven (7) items were registered to Pinnacle/Mesaba as generally licensed devices:

Fort Wayne IN (FWA) Serial # 718190-001 [1 Curie] *Location Unknown*  
Serial # 718190-0601 [1 Curie] *Location Unknown*  
Serial # 2680 [390mCi] *is currently located at our Fort Wayne, IN hangar operations at the Fort Wayne International Airport located at Pinnacle Airlines, Inc. 11102 W. Perimeter, Fort Wayne, IN 46809.*

South Bend IN (SBN) Serial # 718189-001 [1Curie] *Location Unknown*  
Serial # 718189-0601 [1Curie] *Location Unknown*  
Serial # 718189-0602 [1Curie] *Location Unknown*  
Serial # 2681 [1 Curie] *Currently located at the Detroit Metropolitan Airport located at Pinnacle Airlines, Inc. 10300 Middlebelt Rd, DTW-Bldg 359, Romulus, MI 48174.*

A call to the manufacturer, Safety Lite Corp (formerly US Radium Corp and currently Shield Source) indicated that the 10 digit serial numbers noted above are not manufacturer assigned. The representative on site at Safety Lite Corp, Martha Rider [mrider@isolite.com](mailto:mrider@isolite.com), may be able to assist with purchase records once a review of the original submittals are accomplished. The serial numbers likely were assigned by the person filing the registration for the devices.

Additionally, the following items are present in our maintenance operations but not on record as registered with the NRC and may actually be one or more of the above noted devices whose location is noted as unknown:

Serial # **2463** [1 Curie] *Currently located in our Knoxville TN hangar operations located at Mcghee Tyson Airport at Pinnacle Airlines, Inc. 330 Flagship Knoxville Drive, Alcoa, TN, 37701.*

Serial # **2462** [1 Curie] *Currently located at our Central Wisconsin Airport hangar operations located at 400 Aviation Way, Mosinee, WI, 54455*

Serial # **2115** [1 Curie] Currently located at our operations located at the Cincinnati/Northern Kentucky International at Pinnacle Airlines, Inc. 77 Comair Blvd., Erlanger, KY 41018.

Serial # **C123** [1 Curie] Currently located at the Minneapolis/St. Paul International Airport located at Pinnacle Airlines, Inc. 7500 Airline Drive Department 625, Minneapolis, MN 55450-1101

Serial # **C350** [1 Curie] Currently located at the Minneapolis/St. Paul International Airport located at Pinnacle Airlines, Inc. 7500 Airline Drive Department 625, Minneapolis, MN 55450-1101

Serial # **C0037** [1 Curie] Currently located at the Minneapolis/St. Paul International Airport located at Pinnacle Airlines, Inc. 7500 Airline Drive Department 625, Minneapolis, MN 55450-1101

After the phone notification on 11/6/12, Pinnacle received notification that additional devices were registered under variations of the Mesaba name, (Mesaba, Mesaba Airlines, Mesaba Aviation, and Mesaba Air). The additional devices are noted below:

Model-Manufacturer	Model No.	Serial No.	Isotope	Activity
NRD, LLC	T-4001	GLDB	H3	10.5curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	4 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	4 curies
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	1 curie
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	20 curies
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	20 curies
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	10 curies
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	10 curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7 curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7 curies
Self-Powered Lighting, Inc.	CPI-450	GLDB	H3	1.4 curies
Self-Powered Lighting, Inc.	CPI-450	GLDB	H3	1.4 curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7curies
Self-Powered Lighting, Inc.	CPI-300	GLDB	H3	3.7curies
Self-Powered Lighting, Inc.	AC/4	GLDB	H3	4curies
Self-Powered Lighting, Inc.	AC/4	GLDB	H3	4curies
Self-Powered Lighting, Inc.	AC/4A	GLDB	H3	4curies
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	1curie
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	1curie
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	1 curie
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	20 mcuries
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	1 curie
Self-Powered Lighting, Inc.	CPI-25	GLDB	H3	10 mcuries
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies
Self-Powered Lighting, Inc.	CPI-250	GLDB	H3	6 curies



[illegible]

On 11/14/2012 a call was made to Self-Powered Lighting (SPL) 800-777-9399. The technical representative indicated that devices with model No.s AC/4 and AC/8G are aircraft exit signs. The manufacturer does not recognize the model No.s with CPI-25, CPI-250, CPI-300, CPI-450, and CPI-500 but it is likely that they are also aircraft exit signs. Additionally, Pinnacle's purchasing department has reviewed their purchase records and parts data base and there are no records associated with the noted model numbers or serial numbers.

If a copy of the original registrations can be provided to Pinnacle Airlines, more information may be able to be obtained as to the disposition and location of the registered devices. If you are able to offer any assistance or additional advice in reconciling the information provided, please call me at 901-922-0660.

As a final note, Pinnacle Airlines expects to exit bankruptcy on or about May 1, 2013. At that time Pinnacle will be a wholly owned subsidiary of Delta Airlines.

Regards,

A handwritten signature in black ink that reads "Rhonda Quint". The signature is written in a cursive, flowing style.

Rhonda Quint  
Manager, Environmental Compliance  
901-922-0660