

# RI - DNMS Licensee Event Report Disposition

Licensee:	SBC Associates, Inc.				
Event Description:	Stolen Gauge				
License No:	37-308700	Docket No:	03036478	MLER-RI:	2006-036
Event Date:	08/30/06	Report Date:	09/19/06	HQ Ops Event #:	42814

## 1. REPORTING REQUIREMENT

<input type="checkbox"/>	10 CFR 20.1906 Package Contamination	<input type="checkbox"/>	10 CFR 30.50 Report
<input checked="" type="checkbox"/>	10 CFR 20.2201 Theft or Loss	<input type="checkbox"/>	10 CFR 35.3045 Medical Event
<input type="checkbox"/>	10 CFR 20.2203 30 Day Report	<input type="checkbox"/>	License Condition
<input type="checkbox"/>	Other		

## 2. REGION I RESPONSE

<input checked="" type="checkbox"/>	Immediate Site Inspection	Inspector/Date	Reichard 09/06/06
<input type="checkbox"/>	Special Inspection	Inspector/Date	
<input type="checkbox"/>	Telephone Inquiry	Inspector/Date	
<input type="checkbox"/>	Preliminary Notification/Report	<input type="checkbox"/>	Daily Report
<input type="checkbox"/>	Information Entered in RI Log	<input type="checkbox"/>	Review at Next Inspection
<input type="checkbox"/>	Report Referred To:		

## 3. REPORT EVALUATION

<input checked="" type="checkbox"/>	Description of Event	<input type="checkbox"/>	Corrective Actions
<input checked="" type="checkbox"/>	Levels of RAM Involved	<input type="checkbox"/>	Calculations Adequate
<input type="checkbox"/>	Cause of Event	<input type="checkbox"/>	Additional Information Requested from Licensee

## 4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

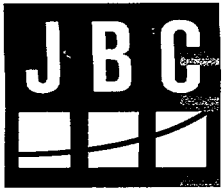
<input type="checkbox"/>	Release w/Exposure > Limits	<input type="checkbox"/>	Deliberate Misuse w/Exposure > Limits
<input type="checkbox"/>	Repeated Inadequate Control	<input type="checkbox"/>	Pkgng Failure > 10 rads/hr or Contamination > 1000x Limits
<input type="checkbox"/>	Exposure 5x Limits	<input type="checkbox"/>	Large# Indivs w/Exp > Limits or Medical Deterministic Effects
<input type="checkbox"/>	Potential Fatality	<input type="checkbox"/>	Unique Circumstances or Safeguards Concerns
If any of the above are involved:			
<input type="checkbox"/>	Considered Need for IIT	<input type="checkbox"/>	Considered Need for AIT
Decision/Made By/Date:			

## 5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

<input type="checkbox"/>	Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)
<input type="checkbox"/>	Medical Consultant Used-Name of Consultant/Date of Report:
<input type="checkbox"/>	Medical Consultant Determined Event Directly Contributed to Fatality
<input type="checkbox"/>	Device Failure with Possible Adverse Generic Implications
<input type="checkbox"/>	HQ or Contractor Support Required to Evaluate Consequences

## 6. SPECIAL INSTRUCTIONS OR COMMENTS

<input type="checkbox"/> Non-Public	Inspector Signature:	<i>M. C. Reichard</i>	Date:	9/22/06
<input checked="" type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Branch Chief Initials:	<i>[Signature]</i>	Date:	9/24/06
Location of File: G:\Reference\Blank Forms\LER FORM.wpd			Rev. 02/25/05	



ASSOCIATES, INC.

RECEIVED  
REGION 1

2006 SEP 20 PM 2: 28

September 19, 2006

JBC ASSOCIATES, INC.

583 Shoemaker Road

Suite 230

King of Prussia, PA

19406

610.992.9090

Fax 610.992.9099

U. S. Nuclear Regulatory Commission  
Nuclear Materials Safety Branch  
Division of Nuclear Materials Safety Region I  
475 Allendale Rd.  
King of Prussia, PA 19406

Attn: Mr. Sattar Lodhi, Ph.D.

Re: Theft of Nuclear Density Gauge  
Humboldt Scientific Nuclear Density Gauge  
Model 5001EZ, S/N 3541  
NRC License Number 37-30870-01

Dear Mr. Lodhi:

Please accept this letter as the official notification and summary of events regarding the theft of JBC Associates, Inc.'s Humboldt Scientific Nuclear Density Gauge, Model 5001EZ, S/N 3541 from our project field storage location for the S.R. 0209, Marshalls Creek By-Pass construction project site located in Marshalls Creek, Monroe County, PA.

On August 30, 2006 at 1:47 p.m., JBC Associates, Inc.'s nuclear density gauge operator on the Marshalls Creek Highway project, Dennis Zimmerman, reported to Ronald Drumheller, RSO for JBC Associates, that our nuclear density gauge containing 10 milli Ci of Cs-137 and 40 milli Ci of [Am]-241 had been stolen. The theft is believed to have taken place between the evening of Tuesday August 29 and the afternoon of Wednesday August 30, 2006, from a work site in Stroudsburg, PA. The Humboldt was inside a contractor's locked storage shed; and it was locked and chained to a rock shaker that was bolted to the storage shed's floor. Entry to the storage shed was gained by breaking the lock. The gauge was removed by cutting the transporation box's handles thus allowing the chain and lock to be removed from the box.

Ron Drumheller, RSO, immediately contacted the US Nuclear Regulatory Commission (NRC) and reported the stolen gauge incident to Ms. Michele Beardsley at the NRC's King of Prussia office. Immediately after reporting to NRC's King of Prussia office, calls were made to the NRC's Operation Center and Pennsylvania Department of Radiation Protection Bureau (Scott Wilson) to report the theft. By 2:30 p.m., all required reporting agencies involved had been notified of the theft.

Mr. Sattar Lodhi, Ph.D.  
September 19, 2006  
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State Police from the Swiftwater State Police Barracks, Crime Unit, Trooper William Wagner responded to investigate the theft of the Nuclear Density Gauge at the Route 209 Marshalls Creek By-Pass construction project site located in Marshalls Creek, Monroe County, PA. Police Incident Number N6-844823.

On August 31, 2006, I received a call from Michele Beardsley to review the current events taking place in reference to the stolen gauge. Ms. Beardsley inquired as to the current status of a Press Release and if we had considered offering a reward for the return of the nuclear gauge. She also advised that if we had any additional questions or if we were in need of any advice that we could contact Division Director Mr. Sattar Lodhi or Mr. John Kinnerman. The Press Release was issued and \$500.00 reward to was offered for the return of the nuclear gauge. A copy of the Press release was sent to Mr. Neil Sheehan, NRC Public Affairs. A copy of the Press Release is enclosed.

On September 6, 2006, a field inspection at the Marshalls Creek project site was conducted by Mr. Michael C. Reichard, Health Physicist, Division of Nuclear Material Safety; and on September 7, 2006, an inspection was performed at our home office at 583 Shoemaker Rd., King of Prussia, PA 19406. Upon the completion of both the field and home office inspections, Mr. Richard reported that he felt that everything was in order and he found no current violation or problems during his inspection of JBC Associates, Inc.

As of the date of this letter, the nuclear gauge has neither been found nor returned. The state police investigation is ongoing.

Sincerely,

**JBC ASSOCIATES, INC.**



Ronald C. Drumheller  
Vice President, RSO



Two portable moisture density gauges containing sealed sources of radioactive material were reported stolen between the evening of Tuesday, August 29 and the afternoon of Wednesday, August 30, from a work site in Stroudsburg, PA. Anyone with information is asked to contact the Nuclear Regulatory commission's Headquarters Operation Center at (301) 816-5100. There is currently a cash reward in the sum of \$500. The reward will be provided to any individual that contributes to the immediate return of these gauges.

SITE-Blauvelt Engineers, Inc. of Mt. Laurel, NJ, and JBC Associates of King of Prussia, PA, reported to the NRC on August 30 the loss of two nuclear gauges. A Troxler Model 3440 and Humboldt 5001EZ, were stolen from a locked construction storage shed on the Rt. 209 Marshalls Creek By-Pass construction project located Marchalls Creek, (Monroe County), PA.

The Troxler 3440 was contained within large utility box that was secured by two locks the entire utility box was stolen. The Humboldt 5001EZ was locked and chained to a rock shaker that was bolted to the construction storage shed's floor. The Humboldt gauge was stolen by cutting the transportation box's handles thus allowing the chain and lock to be removed from the box.

Both gauges were contained within locked yellow transportation containers at the time they were removed. The gauges make their measurements by projecting the radiation from the two radioactive sources into the ground and then displaying the reflected radiation on the dial of the gauge.

The gauges consist of the shielding container with a plunger type handle protruding from the top to be used to extend and then retract the radioactive source from the shielded position. When not in use, the handle is locked, with the source in the retracted position.

In both cases, the sources were locked in the shielded position inside the gauges and present no hazard to the public in that configuration; However any attempt to tamper with the radioactive sources in the device could subject the person(s) to radiation exposure. Handling of the unshielded sources outside their container would carry a risk of potentially dangerous exposure.

The Troxler's Serial Number is 35144 and the Humboldt's Serial Number is 3451. The numbers are listed on a metal plate on top of the device as well as on the metal plate on the top of the transportation box. Anyone seeing the gauge should leave it alone and report its location to the NRC's Operations Center at (301) 816-5100. The center is staffed 24 hrs a day and accepts collect calls.