

Bill Dean, Regional Administrator  
NRC Region I  
2100 Renaissance Blvd.  
King of Prussia, PA 19406

**SUBJECT: CARIBBEAN MARINE CONTRACTORS (GENERAL LICENSEE) – 30 DAY  
WRITTEN REPORT OF THEFT OF LICENSED MATERIAL AS REQUIRED  
BY 10 CFR 20.2201**

Description of License Material (kind, quantity and chemical form)

Ronan RLL-1 Gauge with a 900 microcurie Cs-137 sealed source, Serial No. 206762A

Description of Circumstances Under Which Theft Occurred

The gauge was stored in a fenced yard with a locked gate, inside a locked truck trailer. Sometime between October 30, 2010, and June 2011, the gauge was stolen along with other metal components likely for their value as scrap metal. Because the gauge is small, the theft of the gauge went undetected.

Statement of Disposition

The gauge apparently was purchased from the thieves by UTM Trading Corporation. This metal was then apparently sold to a metal yard in Taiwan. We are making efforts to recover the gauge. Our goal is to properly dispose of the source.

Exposure of Individuals

The sealed source and device registry for the gauge KY-576-D-113-B lists dose rates at 2 inches at less than 50 mrem per hour, less than 0.5 mrem/h at 1 foot, and we believe less than 0.05 mrem at 1 meter. Based on that information we have determined the following:

**Maximum Dose to Thieves and Metal Processors:**

- 10 minutes ( $10/60 = 0.167$  hours) of direct contact with the gauge
- 0.50 mrem/h at 1 foot
- 0.50 mrem/h x 0.167 hours = 0.083 mrem

Actions That Have Been Taken to Recover the Gauge

- Obtained contact information for the individual who reportedly has the gauge in Taiwan.
- Understand that Ronan Engineering Company, the gauge manufacturer, will dispose of the source if the gauge can be shipped to them
- Plan to inquire if there are any disposal options in Taiwan
- Requesting estimates from radioactive material handlers for a shipment from Taiwan
- Seeking assistance from the Conference of Radiation Control Program Directors.

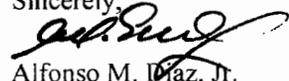
Procedures to Prevent Recurrence

Rec'd 06/25/12

The gauge was stored in a fenced yard with a locked gate, inside a locked truck trailer and was stolen. It is difficult to prevent this type of theft. However, in the future, we will ensure that we maintain close oversight of the gauge including conducting quarterly inventories.

Although we have very limited funds, we are committed to ensuring the proper disposition of this gauge.

Sincerely,



Alfonso M. Diaz, Jr.

President, Caribbean Marine Contractors

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