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Item #5 Radioactive Material

Element and Mass Number (A)	Chemical and or Physical Form (B)	Name of Manufacturer and Model Number (if sealed source (C)	Maximum number of millicuries which will be possessed at any one time (D)
1. Californium 252	Sealed Source	Amersham model CVN.CY6 or Frontier Technology Model 100 Series	125 millicuries in sources
2. Cesium 137	Sealed Source	Isotope Product Labs Model 225 CDC.704 and CDC.705	25 millicuries in 2 sources

Item #6 Describe use of radioactive material

- 1. To be used as components of a Gamma-Metrics Bulk Material Analyzer, Model 2000, for the measurement of elemental analysis of coal.
- To be used as components of a Gamma-Metrics Bulk Material Analyzer, Model 2000, for the measurement of density/weight.
- Item #7 Individuals responsible for radiation safety program And their training experience.

All personnel directly involved with the operation of this analyzer will receive training prior to the initial operation of this device.

Stanley Rose, Senior Preparation Engineer, for U.S. Steel Mining Company, LLC, will be designated the Radiation Safety Officer. Mr. Rose has acted in this capacity for

-Application for Material License-

approximately 10 years and has received one week training by another nuclear gauge manufacturer. Experience only includes safety issues of existing nuclear gauges operated under general licenses of the manufacturers'.

- Item #8 Training for individuals working in or frequenting
 restricted areas
- Trainees: Field Representative c/o Gamma-Metrics 5788 Pacific Center Blvd. San Diego, CA 92121

Training Duration: One day

Item #9 Facilities and Equipment

Equipment is contained in a modified shipping container with the dimensions:

Length -158 inches Width - 96 inches Height -102 inches

An entry port and exit port exist on the top and bottom with the approximate dimensions 18" X 24". A door is provided for entry and kept locked. The radiation safety officer is the only individual provided with a key to this lock. See Attachment A.

Item #10 Radiation Safety Program

Radiation and protection program to be provided at site by Gamma-Metrics on sealed source. Paper Wipe Leak Test performed by Gamma-Metrics field engineer every three months. Signs will be posted at the analyzer entry and exit ports with the wording "Radioactive Material". The analyzer will remain locked at all times. For emergency fire procedures. See Attachment B.

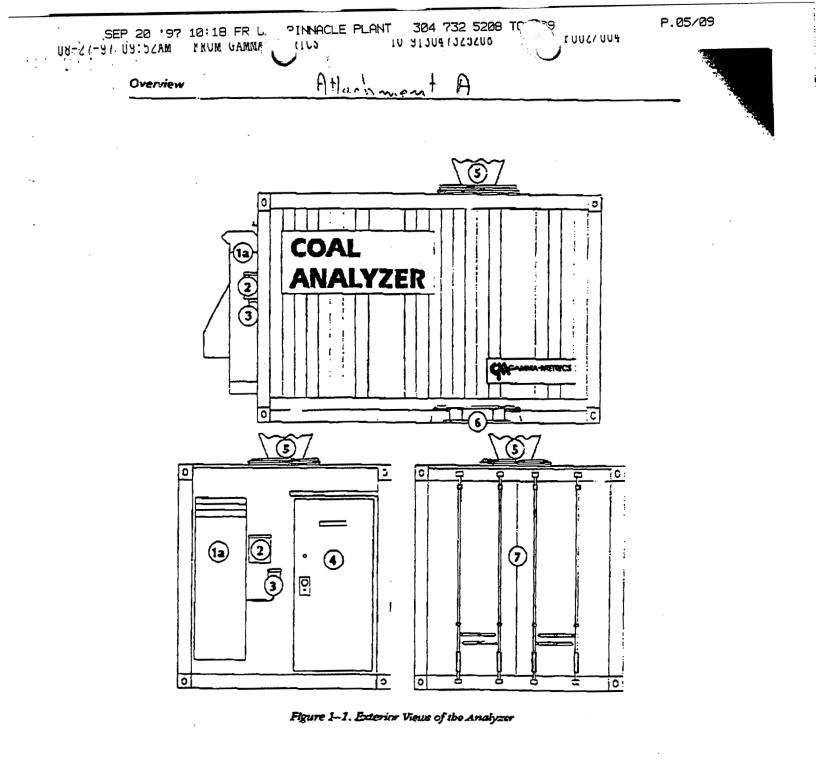
Item #11 Waste Management: Depleted/spent sources will be returned to manufacturing vendor for proper disposal. Item #12 Fee Category & Amount Enclosed

Fee Category - 3P

,

Amount - \$750.00

Stanley Love



No.	Item	No.	ltem
la	Air Conditioner, Mark III only	5	Input Hopper (Customer-supplied)
ĩЬ	Air Conditioner, Mark I & II	. 6	Material Exit
z	Communications Interface Box	7	Rear Access Doors
3	Power Junction Box	8	Circuit Breaker Boxes
4	Personnel Access Door	9	Lights

1812C Coal Analyzer Operation & Malmonance Manual .3318

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EMERGENCY PROCEDURES for Installed Bulk Material Analyzers

Atlachment

This procedure is intended for customers of GAMMA-METRICS who have one or more Bulk Material Analyzers installed on their premises. This includes all models of Bulk Material Analyzers as well as the FastLab[®] Sample Analyzer. This procedure assumes there is a site license for radiation sources and the sources are installed in the analyzer(s).

In the event of an accident resulting in structural damage to the analyzer, such as fire or any other situation that could cause one or more of the radiation sources to be exposed, follow this procedure:

- 1. In the case of a Bulk Material Analyzer, if possible, empty the chute of material (which will automatically cause the sources to be stored).
- 2. Turn off the power.
- 3. Notify the on-site Radiation Safety Officer (RSO).
- 4. Rope off the area around the analyzer at a distance to be determined by the RSO (normally about 50 feet from any possible area of radiological contamination).
- 5. Restrict access to the roped-off area to all non-essential personnel.
- 6. Call GAMMA-METRICS as soon as possible and ask for the Radiation Safety Officer or the BMA Field Service Department.
- 7. Notity the appropriate governmental authorities responsible for emergency response activities.
- WARNING! Under no circumstance should anyone attempt to handle or repair the damaged analyzer until all radioactive materials are accounted for and removed from the analyzer.

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Regulation

Regulations have been set up by the federal, state, and international governments to keep the exposure of personnel working with radioactive materials as low as reasonably achievable (ALARA). GAMMA-METRICS designed the Bulk Material Analyzer and Fastillab to comply with these regulations. Part of the regulation compliance requires the labelling of radioactive material. The following figure shows a typical radiation label that should be attached to any radiation handling device that currently has a radiation source attached.



No other postings are required when the sources are correctly installed in the analyzer since the exterior doserates are below those which require posting. The on-site Radiation Safety Officer is required to know all other regulations that may be site specific.

Source Control

The BMA is set up with safety features that prevent people working around the equipment from accidentally coming in contact with radioactive sources.

Access Control -	Sources are locked into the analyzer with key access controlled by the Radiation Safety Officer.
Hanaling Assembly -	Source handling devices are provided with the analyzer to maintain a safe distance at all times from the radioactive sources.
Power Los s -	The BMA has a stored and deployed position for the radioactive sources. The deployed position requires material in the spout as added shielding. In the case of a power failure, the sources will immediately drop into the stored position as a fail-safe precaution.
Encapsulation -	The radioactive sources are sealed inside stainless steel capsules to prevent spreading of radioactive contamination.
Fire -	The source capsules can withstand most fires or small explosions. After any such event that could damage the capsule. however, they must be checked for leakage.
Leak Tests -	GAMMA-METRICS provides a leak test service for all radioactive sources at customer sites.

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