

PEABODY ENERGY MIDWEST GROUP
DEPARTMENT OF ENVIRONMENTAL AFFAIRS
FAX TRANSMITTAL SHEET

DATE: 7-24-07

TO: LOREN HUETER FAX NO. 630-515-1078

FROM: BOB DYER FAX NO. _____

RE: # 13-26785-01

MESSAGE: CONTROL # 316105

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**APPLICATION FOR RENEWAL
OF MATERIAL LICENSE 13-26785-01**

ATTACHMENT A

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ITEM	APPLICANT RESPONSE
3	<p>The existing license authorizes use of licensed material at three (3) locations. The physical addresses of these locations are as follows:</p> <ul style="list-style-type: none"> A. Black Beauty Francisco Mine County Road 850 East Francisco, Indiana 47649 B. Black Beauty Farmersburg Mine 5526 East French Drive Pimento, Indiana 47866 C. Black Beauty Somerville Central Mine R.R. #3, Box 155 Oakland City, Indiana 47660
5	<p>The existing license authorizes possession of the following materials:</p> <ul style="list-style-type: none"> A. Californium-252, sealed source, 9 sources not to exceed 108 millicuries total B. Cesium-137, sealed source, 2 sources not to exceed 25 millicuries each C. Californium-252, sealed source, 2 sources not to exceed 27 millicuries each
6	<p>Sub-items 5A & 5B: To be used in Gamma-Metrics Bulk Material Analyzer Model 2000 source holder for measurements of elemental analysis of coal and measurements of density/weight.</p> <p>Sub-item 5C: To be used in Sabia Model XC-50 Series source holders for analysis of the chemical elemental composition of coal.</p>
7	<p>Individuals responsible for radiation safety program at each facility:</p> <p>All Locations: Robert L. Dyer, Regional Radiation Safety Officer Location 3A: Brad Lawyer, Assistant Radiation Safety Officer Location 3B: Randy Bowman, Assistant Radiation Safety Officer Location 3C: James Evans, Assistant Radiation Safety Officer</p> <p>Training:</p> <p>Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Authorized Users" in NUREG-1556, Volume 4, Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses, dated October 1998.</p>

**APPLICATION FOR RENEWAL
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PAGE 2 OF 2

ITEM	APPLICANT RESPONSE
8	<p>Training for individuals working in or frequenting restricted areas:</p> <p>Before working in or frequenting restricted areas, individuals will have successfully completed one of the training courses described in Criteria in the section entitled "Authorized Users" in NUREG-1556, Volume 4, Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses, dated October 1998.</p>
9	<p>Facilities and Equipment:</p> <p>The applicant will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment in NUREG-1556, Vol. 4, dated October 1998.</p>
10	<p>Radiation Safety Program:</p> <p>Surveys: Surveys pursuant to 10CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys.</p> <p>Survey Instruments: Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations</p> <p>Material Receipt and Accountability: Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.</p> <p>Operating & Emergency Procedures: Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998.</p> <p>Leak Test: The applicant will implement the model leak test program published in Appendix M to NUREG 1556, Vol. 4, dated October 1998.</p> <p>Routine Maintenance: The applicant will implement and maintain procedures for routine maintenance of fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.</p> <p>Non-Routine Maintenance: The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.</p> <p>Occupational Dosimetry: We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program - Occupational Dosimetry," in NUREG-1556, Vol. 4, dated October 1998.</p> <p>Fixed Gauges Used at Temporary Job Sites: This is not applicable to our program. We will not use fixed gauges at temporary job sites.</p>
11	<p>Waste Management:</p> <p>The applicant will develop, implement, and maintain gauge transfer and disposition procedures in its radiation protection program.</p>