



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

January 14, 2009

Murphy Exploration & Production Company - USA
ATTN: Ms. Tammy Meador
Regulatory/HSE Manager
16290 Katy Freeway, Suite 600
Houston, TX 77094

SUBJECT: INCREASED CONTROLS FOR POSSESSION OF RADIOACTIVE MATERIALS
IN QUANTITIES OF CONCERN

The U.S. Nuclear Regulatory Commission ("NRC" or "Commission") has determined that additional controls are necessary to supplement existing regulatory requirements in 10 CFR § 20.1801 and 10 CFR § 20.1802. These increased controls are required with respect to the possession of "quantities of concern". Enclosure A to this letter contains the requirements for the increased controls; Enclosure B identifies radioactive material quantities of concern; and Enclosure C contains questions and answers regarding implementation of the increased controls. Based upon your application for an NRC byproduct materials license, you may either be: 1) authorized to possess radioactive materials in quantities of concern, or 2) authorized to possess radioactive material sources which, if collocated, meet the activity for quantities of concern. Therefore, the enclosed documentation is provided in order for you to implement the additional requirements before you either come into possession of quantities of concern or possess radioactive material sources which, if collocated, would meet the activity for quantities of concern.

If you determine that compliance with the additional controls for quantities of concern is not necessary because you do not intend to possess radioactive material in quantities of concern, or if you have any questions regarding the increased controls, please contact me at 817-860-8132 or by email to Jackie.Cook@nrc.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at: <http://www.nrc.gov/reading-rm/adams.html>.

Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacqueline D. Cook".

Jacqueline D. Cook, Senior Health Physicist
Nuclear Materials Safety Branch B

Enclosures: As stated