



UNION CARBIDE CORPORATION  
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PMS File No.: 8476542

Date: March 16, 1984

Mr. Paul R. Guinn  
U.S. Nuclear Regulatory Commission  
Materials Radiation Protection Section  
101 Marietta 54, N.W.  
Suite 2906  
Atlanta, Ga. 30303

Date... 7/30/84  
June 10 II  
Brown  
8/10/84

Dear Mr. Guinn,

Our USNRC license 47-00260-02 expires April 30, 1984. We would like to make several revisions to our license. We currently hold three licenses 47-00260-02, -06 and -09 which we would like to combine into one license. The -02 license is a broad scope license for use of sealed sources, the -06 is a broad scope license for unencapsulated material and the -09 license permits us to use Am 241:Be for testing steel vessels for carbon build-up. I propose revising the -02 license authorized uses to encompass the activities covered by the other two licenses and to let those two licenses lapse.

We have experienced significant changes in our organization and business objectives in the last few years. Our name has changed to the Process Measurement Systems organization of the Union Carbide Engineering & Technology Services Division. We are still based at our Technical Center in So. Charleston, WV, and provide services to the Technical Center's Engineering and Research & Development organizations as well as to other Union Carbide facilities across the country.

Our new Engineering and Technology Services Division was organized to market its skills and technology to non-Union Carbide clients on a worldwide basis. As a result of this, we would like to be able to also offer our skills and knowledge in the application and installation of nuclear gauging devices to our non-Union Carbide clientele. I am therefore seeking to revise our license to permit us to install nuclear gauging devices at any facility properly licensed to possess and use that particular material and device.

We have also perceived a market for using our nuclear gauging technology to make spot analyses of material level and density in process vessels. This activity involves using a portable radiation source and detector to make field analyses of process level and/or density. This technique is very useful in such activities as locating a material plug in a pipe, defining the material level in a vessel, or identifying the improper operation of a distillation column. The attached procedure was developed to assure the propriety and safety of such operations. We would like to be able to offer this service as well as the carbon build-up detection service offered on our -09 license to non-Union Carbide clients of our Division.

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We have purchased a Troxler Laboratory Model 3216 Roof Moisture Gauge. A representative of Troxler has demonstrated the use of the device to us. We would like to be licensed to use this device under our broad scope license.

The reorganization of our Division has included personnel changes which will affect our Radioactive Materials Committee. The chairman of the committee and RPO has changed from J. H. Brubaker to M. L. Green. F. P. Straccia and D. G. Allport have been replaced on the committee by J. A. Boggess and W. S. Kennedy. The pertinent biographical information on committee members has been updated and attached to this letter.

I have updated and revised the Technical Center Radiological Control Manual. A copy is attached with the significant revisions underlined in red. A check to cover the fee for license renewal is also attached to this letter.

This letter and revised Technical Center Radiological Control Manual supersedes all previous documents. We will continue to operate in accordance with this document, our existing three licenses, except as modified by this document, and all applicable NRC regulations and license conditions.

If you have any questions or comments on the changes in our license please call me on (304) 747-5314.

Yours truly,



M. L. Green, RPO  
Process Measurement Systems  
ENGINEERING & TECHNOLOGY SERVICES DIV.

MLG/p1

Attachments

Doc. 0148C

KEYWORDS: PMS, RADIOLOGICAL, LICENSE, NRC, RENEWAL, MLG