



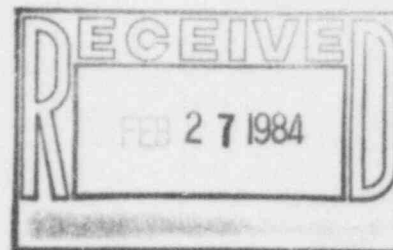
1500 North 30th Street, Billings, MT 59101-0298

Department of Physical Sciences

406/657-2341

February 22, 1984

Dr. John T. Collins
Regional Administrator
Nuclear Regulatory Commission, Region IV
Material Radiation Protection Section
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



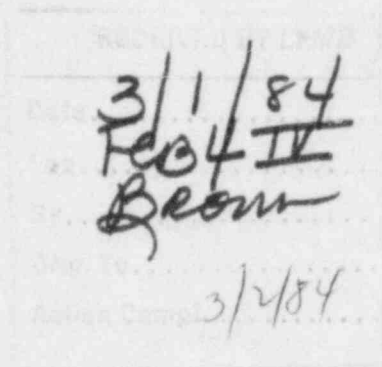
Dear Dr. Collins:

We wish to renew license #25-12923-01, with some amendments. These include addition of a third user, an increase in the amount and form of ^{14}C , and a new gamma counter. These changes are described in the attached sheet.

The enclosed documents, included with the last license renewal, represent current practices in use of radioisotopes at Eastern Montana College. We will continue to operate in accordance with the attached documents and applicable NRC regulations and license conditions. Thank you for your consideration.

Sincerely,

Gary L. Bintz
Gary L. Bintz
Chairman, Department
of Natural Sciences



GLB/pe

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Requested Additions to Previous License Application
(Form AEC-313)

- #4. Dr. Stanley M. Wiatr, Asst. Prof.
- #6 B. Carbon -14. Increase total amount to 15 millicuries
Allow use of Ba¹⁴CO₃, up to 5 millicuries.
- #8. Training and Experience for Dr. Stanley Wiatr (all training at U of Alberta, Edmonton)
- a. Principles and practices of radiation protection
Trained for 6 months on the job and in formal courses.
 - b. Radioactivity measurement standardization and monitoring techniques and instrumentation.
Trained for 4 months on the job and in formal courses.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
Trained 4 months on the job and in formal courses.
 - d. Biological effects of radiation.
Trained 4 months on the job and in formal courses

- #9. Experience of Dr. Stanley Wiatr with Radiation.

	<u>Isotope</u>	<u>Maximum Amount</u>	<u>Where</u>	<u>Duration</u>	<u>Type of Use</u>
a)	¹⁴ C	3 millicuries	U of Alberta	1 year	¹⁴ CO ₂ uptake in plants
b)	¹³¹ I	2 µCi	"	6 months	Training in Radiation safety
c)	³² P	2 µCi	"	"	for technicians and isotope
d)	³ H	2 µCi	"	"	tracer methodology
e)	⁹⁹ Tc	2 µCi	"	"	"

- #10. Searle 1185 gamma counter, sensitivity 0-1 million dpm, used for measuring.
- #12. Countertops are monitored at 6 month intervals.