



UNIVERSITY OF MISSOURI-COLUMBIA

Environmental Health & Safety

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August 11, 1994

John B. Martin, Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60632-4351

RE: License No. 24-00513-32
Docket No. 030-02278

Subject: Monthly Progress Report on Safety Performance Improvement Program --
Action Plan for the University of Missouri-Columbia Radiation Safety Program

Dear Sir:

In accordance with commitments made by the University of Missouri-Columbia and with the NRC Order dated July 13, 1994, this report is being submitted to you. The purpose of this report is to provide you with monthly progress on the completion status of the Safety Performance Improvement Program (dated June 20, 1994). I am providing you these monthly progress reports by the 15th of each month. This report describes the completion status for July, 1994.

The format of this progress report is as follows:

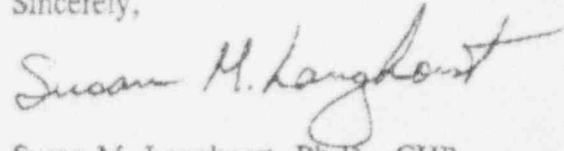
Enclosure 1:

This enclosure provides you with the status of the specific items identified in the June 20, 1994 Safety Performance Improvement Program (University's Action Plan) completed in July, 1994. The University is committed to completing the specific action items within the time limitations, as stated in our Action Plan. It is our understanding that, by virtue of the NRC Order, we may make a written request of you to allow additional time to meet a step and provide the reason for the request and the new time frame for completion. We also understand that no change may be made without your written approval.

Enclosure 2:

This enclosure is included with the monthly progress report at the request of Mr. John A. Grobe to provide a more detailed status description of the overall radiation safety program review. This table will stay essentially the same with the ending date bar moving to the end of the reporting month, and the planned actions being changed to completed status as time progresses. The due date for completion of the overall radiation safety program review by the Health Physicists is December 31, 1994. The planned dates within this table may need to be adjusted to meet the program review needs.

Sincerely,



Susan M. Langhorst, Ph.D., CHP
Radiation Safety Officer

Enclosures: as described

cc: C.A. Kiesler, Chancellor
K.W. Groshong, Vice Chancellor
J.K. Jones, Associate Vice Chancellor
J.P. McCormick, Vice Provost
J.L. Beckett, Director

Enclosure 1

**Progress Report of the
Safety Performance Improvement Program --
Action Plan for the University of Missouri-Columbia Radiation Safety Program
Actions Completed as of July 31, 1994**

Phase One: Hire a qualified Health Physics consultant to review the entire radiation safety program and make corrective action recommendations. This is being done in a two-step process. The first step occurred from May 11, 1994 through May 20, 1994, when Susan J. Engelhardt, President of Engelhardt & Associates, Inc. came to the University to review the health physics portion of the radiation safety program. She met with the Radiation Safety Staff, the Radiation Safety Committee and the University administration to begin determination of what the deficiencies are and how best to correct them. The second step of this process will be carried out from June 6, 1994 through July 15, 1994, by Susan J. Engelhardt, President of Engelhardt & Associates, Inc. and her associate, Dr. Ralph Grunewald, Radiation Safety Officer, Medical College of Wisconsin. This second step will entail reviewing the academic use and medical use portions of the University's licensed activities. The review will include examining a minimum of 100 laboratories and examining the authorized user's records, training, laboratory procedures and facilities. Material control, area radiation and contamination control, and the use of safety equipment will be reviewed. The review of the medical use portion will also include a thorough assessment of both compliance with the requirements of 10 CFR 35 and Regulatory Guide 10.8. A written report of the findings will be provided to the University. A closeout meeting will be held at the University to present findings to the RSO, Radiation Safety Committee, and University administration. [Due date -- July 15, 1994] {Completion date -- July 14, 1994}

MU Radiation Safety Committee (RSC): d. The RSO and the RSC Chair will decide how authorized user assignments are made. [Due date -- July 31, 1994] {Completion date -- July 28, 1994}

Radiation Safety Officer (RSO): d. Provide monthly progress reports to NRC Region III on the completion status of the Safety Performance Improvement Program implementation. [Due date -- beginning July 15, 1994] {Completion date -- began July 15, 1994}

Program Segment	Jun	July	August	September	October	November	December
ALARA	A		R		PT		PI
Application for authorization	A		R		PT		PI
Contamination control & decon. proc.	A		R		PT		PI
Survey /inspection (medical use)	A			PR	PT	PI	
Survey /inspection (animal use)	A			PR	PT	PI	
Survey /inspection (academic use)	A			PR	PT	PI	
Quality Management Program	A			PR	PT	PI	
Training, supervision & instruction	A			PR	PT	PI	
Dosimetry	A			PR	PT	PI	
Training requirements (10CFR35)	A			PR	PT	PI	
Radioactive material transportation	A			PR		PT	PI
Waste management	A				PR	PT	PI
Waste disposal	A				PR	PT	PI
Emergency procedures	A				PR	PT	PI
Area monitoring	A				PR	PT	PI
Medical license items	A				PR	PT	PI
Classification of work area & risk level	A				PR	PT	PI
Individuals responsible	A				PR	PT	PI
Acquisition & receipt procedures	A				PR	PT	PI
Facilities & equipment	A				PR	PT	PI
Handling proc. & good lab practices	A				PR	PT	PI
Area radiation control equipment	A				PR	PT	PI
Individuals responsible (medical use)	A				PR	PT	PI
Radioactive material & purpose	A				PR	PT	PI

Ending date for progress report -- July 31, 1994

- P: planned for completion of task
- A: segment assigned
- R: complete review of license, regulations, references, etc. with respect to procedures, identifying weaknesses and deficiencies
- T: complete, as necessary, draft of procedures/documents for testing or of amendment to change license to assure compliance
- I: implement procedures/documents or prepare application for license amendment, as necessary

TOTAL P.05

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