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U.S. Nuclear Regulatory Commission
Division of Contracts and Property Management
Washington, D.C. 20555-0001

Reference: Grant No. NRC 04 95 086

Dear Sir:

The purpose of this letter is to report on the progress of the work being carried out by Scientific Committee 1-6 of the National Council on Radiation Protection and Measurements on "Linearity of Dose Response" under the above referenced grant. The period covered by this report is July 1, 1996 through September 30, 1996.

If there are questions regarding this progress report please call William M. Beckner at 301/657-2652.

Sincerely,

W. Roger Ney
Executive Director

WMB/jn

cc: C.B. Meinhold
Mary Thomas
Alan Roecklein
NRC Grant File

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## Quarterly Progress Report

## NRC Grant 04 95 086

| | |
|---|---|
| Period covered by this report: | July 1, 1996 through September 30, 1996 |
| Activity supported: | Scientific Committee 1-6 on Linearity of Dose Response |
| Total funding: | FY 1996-1998 $225,000 |
| Program outlays to September 30, 1996: | $ 59,475.20 |
| Funds remaining as of April 1, 1996: | $165,525.80 |
| Performance period: | October 1, 1995- September 30,1998 |

Narrative:

Scientific Committee 1-6 will conduct its third meeting on November 12, 1996. Prior to this meeting, detailed outlines were circulated. Many members have now completed their initial drafts.

The general outline for the Committee's report is as follows:

| Section | Drafter | Comment |
|---|---|---|
| 1. Introduction | Upton | To be written later |
| 2. DNA Repair and Processing after Low Doses and Low Dose Rates of Ionizing Radiation | Painter | Outline provided earlier |
| 3. Mutagenic Effects | Liber<br>Kronenberg | Outline provided earlier |
| 4. Chromosome Aberrations | Preston<br>Adelstein | Outline provided earlier |
| 5. Oncogenic Transformation *In Vitro* | Hall<br>Brenner | Outline provided earlier |
| 6. Carcinogenic Effects on Laboratory Animals | Clifton<br>Upton | Outline provided earlier |

| | | |
|---|---|---|
| 7. Carcinogenic Effects on Human Populations | Shore<br>Finch | Outline provided earlier |
| 8. Interpretation of Adaptive Responses | Committee | To be drafted later |
| 9. Conclusions | Committee | To be drafted later |

The NCRP in conjunction with the work of Scientific Committee 1-6 forwarded a note entitled "NCRP Call for Scientific Data" to several scientific journals asking that it be published. This note and the list of journals was provided in an earlier quarterly report. Approximately 25 separate communications have been received and forwarded to the Committee members. Many of these communications contained significant data.

At the next meeting of Scientific Committee 1-6, which is scheduled for November 1996, the Committee expects to address the question of conducting a scientific hearing regarding the shape of the dose response curve at low doses. The Committee membership have been asked by the chairman to provide names of individuals from whom varying views regarding the shape of the dose response curve, or lack there of, would be expected and who would be willing to support their views with references from the peer reviewed scientific literature. If the Committee decides to pursue this alternative, means of publishing these papers outside of the Committee's report may be sought.

The membership of Scientific Committee 1-6 is as follows:

Chairman: Upton, A.C.
Adelstein, S.J.
Brenner, D.
Clifton, K.H.
Finch, S.C.
Hall, E.J.
Liber, H.
Painter, R.B.
Preston, R.J.
Shore, R.
Advisor: Kronenberg, A.
NCRP Staff: Beckner, W.M.