MEMORANDUM
OFFICE OF ENGINEERING AND TECHNOLOGY

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Date: March 22, 1995
To: Secretary, FCC (Robert Cleveland)
From: Robert F. Cleveland, Office of Engineering & Technology
Subject: ET Docket 93-62
Ex Parte Presentation by U.S. Environmental Protection Agency

Please be advised that on March 21, 1995, the U.S. Environmental Protection Agency (EPA), represented by Dennis O'Connor and Norbert Hankin, met with staff from the FCC and from the National Telecommunications and Information Administration (NTIA) regarding the EPA's efforts to develop exposure recommendations for radiofrequency electromagnetic fields. Attending this meeting from the FCC were: Robert Bromery, Robert Cleveland, Bruce Franca, Stevenson Kaminer, Thomas Stanley, David Sylvar and Jerry Ulcek. NTIA was represented by Janet Healer. During this meeting EPA staff briefed the participants on the EPA's activities and its schedule related to the development of these recommendations. The attached documents were provided to FCC and NTIA staff by the EPA, and they summarize the topics discussed at the meeting.

Please place this memorandum and the attachments into the record of the above-referenced proceeding.

ATTACHMENTS (9)
DEVELOPMENT OF
RF RADIATION EXPOSURE GUIDELINES

BRIEFING FOR THE
FEDERAL COMMUNICATIONS COMMISSION

OFFICE OF RADIATION AND INDOOR AIR
U.S. ENVIRONMENTAL PROTECTION AGENCY

March 21, 1995
BACKGROUND

1986, July    "Federal Radiation Protection Guidance; Proposed Alternatives for Controlling Public Exposure to Radiofrequency Radiation; Notice of Proposed Recommendations"

1992, Jan.    SAB report - recommended that Guidance be completed

1993, Apr.    RF Radiation Conference

1993, Nov.    Comments to the Federal Communications Commission

1994, April   EMF strategy adopted
RF RADIATION CONFERENCE

MAJOR CONCLUSIONS

♦ EPA guidelines needed

♦ Sufficient information - heat/temperature related effects

♦ Insufficient information: nonthermal exposures
  modulation
RF STRATEGY

PHASE 1 (Health Effects)

Known Effects
Interagency Workgroup

INTERIM Exposure Guidelines

PHASE 2 (Modulation)

NCRP Reviewer
Other Input

FINAL Exposure Guidelines
Hybrid Approach to Exposure Limits

◆ Phase 1: Interim RF Radiation Exposure Guidelines

- Based upon EPA comments to the FCC
- Combines best features of NCRP, ANSI/IEEE, IRPA, ... guidelines
- Builds upon existing health effects research
- Simple, less controversial
  no need for: risk estimates
  impact analysis
- Does not include modulation, chronic exposure, nonthermal effects
Modulated and Nonthermal Exposures

♦ Phase 2: Modulation

- NCRP Commentary (two years)
- Current situation
  
  insufficient data
devolving issue

- Approach

  NCRP Commentary
  focus on exposure limits
  convenes National experts

- Commentary

  Addresses important/controversial issues
  basis for Background Information Document

- Input from ongoing research

  SAG - wireless communications
PROCESS

♦ Convene workgroup

Federal Agency: EPA, FDA, NIOSH, OSHA, FCC, NTIA

♦ Preparation of Draft Guidelines documents

♦ Reviews and Revisions

♦ Guidelines Report
Review Process

RF Workgroup

Industry and Federal Agency

OMB

Draft RF Guidance

Issue Interim RF Guidance
NEXT STEPS

- Implement review process
- Draft report revisions
- Incorporate comments