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MEMORANDUM
OFFICE OF ENGINEERING AND TECHNOLOGY

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

DOCKET FILE COPY ORIGINAL

*Manage the spectrum
and provide technical leadership
to create new opportunities
for competitive technologies and services
for the American public.
— Mission Statement —*

Date: March 22, 1995
To: Secretary, FCC
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)

No. of Copies rec'd 025
List A B C D E

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

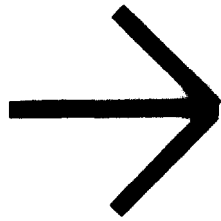
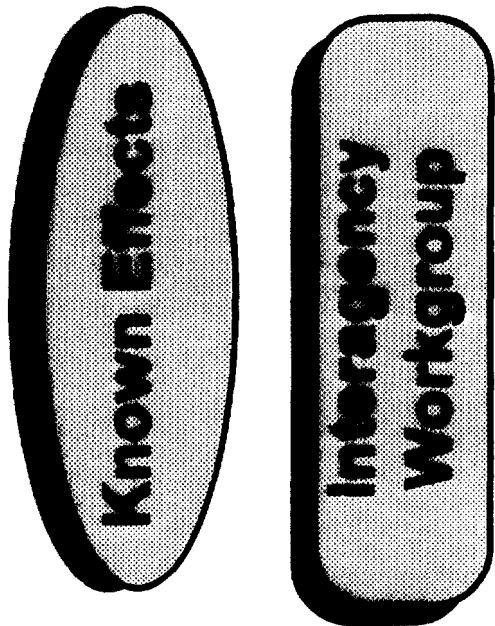
RF RADIATION CONFERENCE

MAJOR CONCLUSIONS

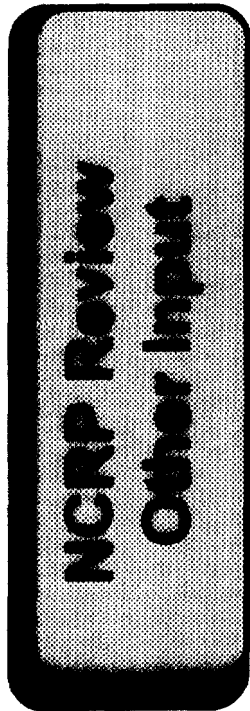
- ◆ **EPA guidelines needed**
- ◆ **Sufficient information - heat/temperature related effects**
- ◆ **Insufficient information: nonthermal exposures
modulation**

RF STRATEGY

PHASE 1 (Health Effects)



PHASE 2 (Modulation)



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
developing 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

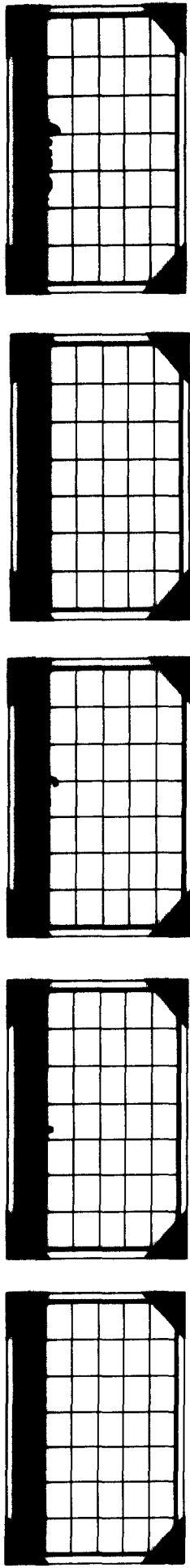
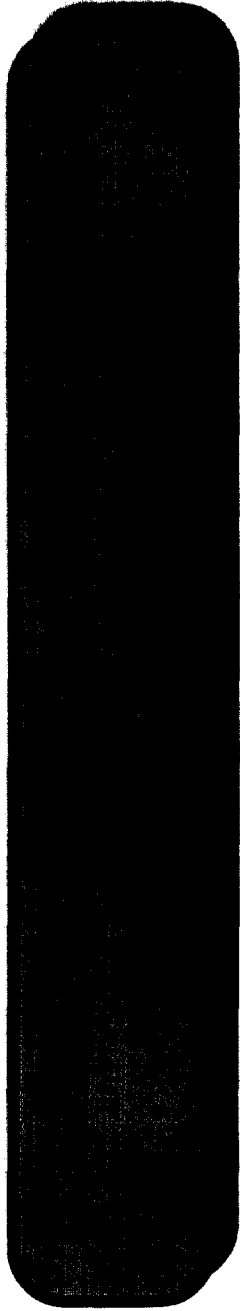
- ◆ Convene **workgroup**

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

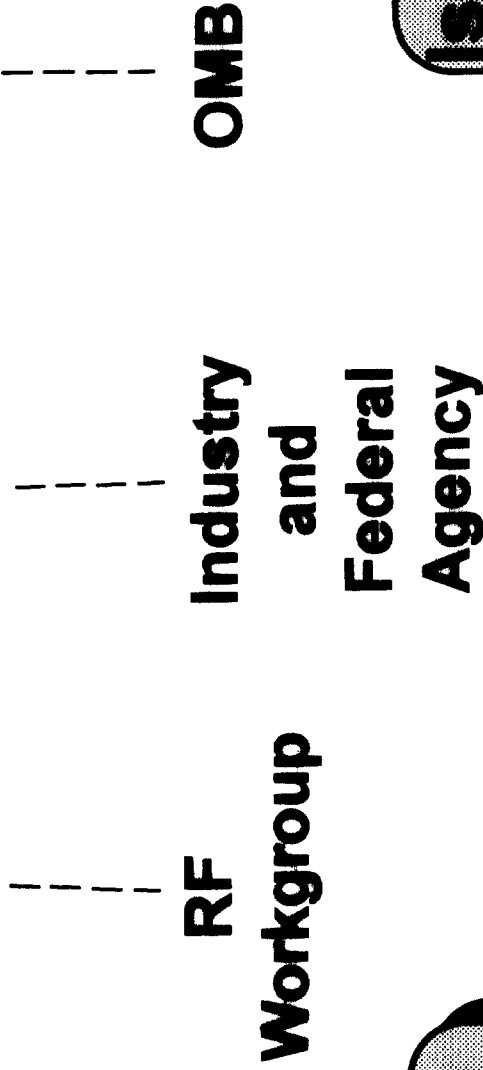
- ◆ Preparation of **Draft Guidelines documents**

- ◆ Reviews and Revisions

- ◆ **Guidelines Report**



Review Process



Draft RF Guidance

Issue Interim RF Guidance

NEXT STEPS

- **Implement review process**
- **Draft report revisions**
- **Incorporate comments**