# B. ENVIRONMENTAL AND HEALTH TASK GROUP ISSUES LIST

## 1. Environmental Impacts of High Voltage Transmission Lines . . . 217

The environmental and safety impacts of high voltage electrical transmission lines are not sufficiently known.

#### 2. Ground and Surface Water Contamination From Surface Mining . . 218

Research on the potential environmental problems from surface mining is inadequate, particularly in terms of impacts on ground and surface water quality.

#### 3. Energy Consumption and Inadvertent Climate Modification . . . . 220

More needs to be known as to whether longterm environmental impacts of increasing worldwide energy use can lead to detrimental or irreversible climate modification.

#### 4. Variance on Environmental Standards During Development . . . . 221

present environmental regulations with regard to the functioning of environmental control equipment are inappropriate to effective technology development at the pilot plant level.

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It is not clear from the ERDA Plan and Program that critical needs in energy modeling procedures and the associated data requirements are fully recognized and accepted by ERDA,

# 6. Site and Technology-Specific Nature of Cause-Effect Relationships In Environmental and Health Impacts .\*. \*\*\*\* \*.\*\*\* .\*\*. e\*\* 225

Simple extension of energy systems modeling capabilities to the regional discrimination level with expanded emissions categories will not yield a valid impact profile for energy technology decisionmaking.

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ERDA's presentation and discussion of environmental, health, social, and institutional research indicates a lack of integration of this research into ERDA's technology program,

#### 8. Energy Impacts of Air and Water Pollution Control Regulations . 229

The interactions between the energy, environmental, and economic effects of Federal, State, and local air and water quality standards are not sufficiently understood.

## 9\* Competing Demands for Water in Western River Basins ..... 231

The limited availability of water in areas such as the Colorado and Missouri River basins will force systems evaluation of net benefit from energy and non-energy activities which depend on water,

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Social and institutional research is needed to identify potential constraints on the deployment of offshore energy facilities,

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ERDA's plan for energy research, development and demonstration does not include research on the effect of public attitudes and values on implementation of ERDA's programs.

# 12. Pro ram Focus in Fossil Fuel Health Effects Research . . . . . . 236

The ERDA Program of research on the health effects of fossil fuels covers a broad range of biological responses and pollutant exposures. Some research areas do not appear to be relevant to ERDA's mission,

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A broad-based research effort is critically required in both university and Federal facilities to develop improved techniques for evaluation of health impacts from coal combustion and conversion.

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Suspected health hazards of atmospheric sulfates may result in air quality standards which would constrain ERDA's programs based on coal.