



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

February 21, 1991

MEMORANDUM FOR: Robert Bernero, Director, NMSS

FROM: John Hoyle, Chairman, Licensing Support

System Advisory Review Panel

SUBJECT: DRAFT REGULATORY GUIDE CONTAINING TOPICAL

GUIDELINES

During the fourth meeting of the Licensing Support System Advisory Review Panel (Panel), October 10-11, 1990, we reviewed draft Regulatory Guide, "Topical Guidelines for the Licensing Support System," which was provided to the Panel for discussion by your memorandum of July 13, 1990. This draft Regulatory Guide reduces the scope of the interim topical guidelines set forth in the Supplementary Information for the final LSS rule published on April 14, 1989. The topical guidelines will be an important part of the program to implement the Licensing Support System (LSS) provided for in 10 CFR Part 2, Subpart J. The Panel appreciates this opportunity to offer comments on whether particular categories of documentary material should be included in the LSS.

Enclosure 3 to your July 13, 1990, memorandum indicates that the draft regulatory guide excludes from the LSS documents relating to transportation and certain environmental issues because those documents are "...outside the scope of what would be needed in the proceedings to license the HLW repository...". With regard to environmental material, the enclosure states that "environmental information required to be included in the LSS has been limited to those documents relevant to the Commission's adoption or modification of the DOE EIS."

Members of the Panel representing the nuclear industry, Department of Energy, site affected local governments, adjacent affected local government and the State of Nevada feel that NRC should provide additional rationale for the proposed exclusions. Some members are concerned that excluding environmental and transportation related documents (including socioeconomic) is unwarranted at this time because information could be excluded prematurely that might be relevant, or likely to lead to the discovery of information that is relevant to issues in the NRC licensing proceeding. These Panel members are particularly concerned that, without the availability of environmental information in the LSS, they will be unable to

provide independent comments to the NRC in the future on whether the NRC should adopt DOE's EIS. They also believe that to exclude such information at this point in the process would be based on the presumption that it would not later be relevant to NRC's adoption of the EIS, a presumption which they believe is premature. At the request of the District Attorney's Office for Clark County, Nevada, I have attached the views of the Board of County Commissioners of Clark County on the proposed exclusion of transportation and socioeconomic information from the LSS.

All members of the Panel, except NRC, strongly urge that if the NRC proposes to exclude documents dealing with transportation and environmental issues from the LSS, that decision should be made in a rulemaking proceeding so that a judicial determination can be obtained on the legality of such exclusions. Although the Panel did not attempt to reach a consensus on whether such exclusions were appropriate or legally supportable, all members of the Panel other than NRC believe that a final agency decision, challengeable on court, should be made now so that the validity of the exclusions will not become an issue at a time when the licensing process could be adversely affected by a determination that the exclusions were erroneous.

The Panel agrees that some revisions to the interim topical guidelines are appropriate, and indeed were contemplated during the negotiations leading up to the adoption of the LSS rule itself. Further, the interim topical guidelines needed to be refined and condensed so as to eliminate redundancy and repetition. With the exception of Panel members' concern relating to exclusion from the LSS of environmental (including socioeconomic) and transportation related documents discussed above, the draft regulatory guide accomplished the necessary revisions. We have attached specific comments on some suggested changes.

- Memo of Bruce L. Woodbury, Clark County, Nevada
- 2. Panel's Specific Comments

cc: SECY



BRUCE L. WOODBURY Chairman

Board of County Commissioners

CLARK COUNTY BRIDGER BUILDING

225 BRIDGER AVENUE LAS VEGAS, NEVADA BOMA

(702) 454-3500

Subject: TOPICAL GUIDELINE DISCUSSION AT THE OCTOBER 10-11, 1990 MEETING OF THE LICENSING SUPPORT

Dennis Bechtel of my staff is a member representing affected local governments on the Nuclear Regulatory Commission's Licensing Support System Advisory Review Panel. At the October 10-11, 1990 meeting, there was discussion about the revised topical guidelines.

As an "affected unit of local government," the County of Clark feels it is important that the topical guidelines not be limited from those defined in the negotiated rulemaking, attached. It would be our strong recommendation not to have an abridged topical guideline. However, if there is to be one, it is important that transportation and socioeconomic issues not be excluded from and abridged guideline. Inclusion of these topics were, as you are aware, the subject of much debate during the course of rulemaking. The inclusion of these attributes is especially needed during the evaluations of the Environmental Impact Statement. The Yucca Mountain Project comprises more than just the site, as you are well aware. We are confident that the transportation and socioeconomic aspects will not be deleted from a modified topical guideline list.

If you have any questions, please contact Dennis Bechtel of my staff.

Sincerely,

Bruce L. Woodbury

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Chairman

Board of County Commissioners of Clark County, Nevada

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Attachment

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Topical Guidelines

The following topical guidelines are to be used for identifying the documentary material that should be submitted by LSS parucipants for entry into the LSS under section 2.1003. The topical guidelines will also be used by the Pre-License Application Licensing Board for evaluating petitions for access to the

· LSS during the pre-license application phase under \$ 21008.

I. Categories of Documents

- —Technical reports and analyses including those developed by contractors
- -QA/QC records including qualification and training records
- -External correspondence
- ---internal memoranda
- Meeting minutes, including DOE/NRC meetings, Commission meetings
- -Drafts (i.e., those submitted for decision beyond the first level of management or similar criterion)
 -Congressional Q's & A's
- "Regulatory" documents related to HLW afte selection and licensing, such as:
 - -Draft and final environmental
 seesaments
 - -Sile characterization plans
 - —Site characterization study plans
 —Site characterization progress
 reports
 - -issue resolution reports
 - -Rulemakings
 - -Poblic and agency comments on documents
 - -Response to public comments
- —Environmental Impact Statement, Comment Response Document, and related references
- --- Ucense Application (LA), LA data base, and related references
- -Topical reports, data, and data analysis
- -Recommendation Report to
- -Notice of Disapproval if submitted

II. General Topics

1. Any document pertaining to the location and potential of valuable natural resources, bydrology, geophysics, tectonics (including voicement, geomorphology, selemic activity, atomic energy defense activities, proximity to water supplies proximity to populations, the effect upon the nebu of users of water, proximity to components of the National Park System the National Wildlife Refuge System, the National Wildlife and Scenic River System, the National Wilderness Preservation System, or National Forest Lands, proximity to sites where high-level radioective waste and spent nuclear fuel is generated or temporarily stored, spent fuel and nuclear waste transportation, safety factors involved in moving spent feel or nuclear waste to a repository, the cost and impact of transporting spent fuel and nuclear weste to a repository site. the advantages of regional distribution in siting of repositones, and various

repositiones may be located.

- 2 Any document related to repository design, siting construction, or operation, or the transportation of spent suclear fuel and high-level nuclear wasta, not categorized as an "excluded document", generated by or in the possession of any contractor of the Department of Energy, the Nuclear Regulatory Commission, or any other party to the HLW licensing proceeding.
- 3. All documents related to the physical attributes of the Besin and Range Province of the continental United States.
- 4. Any document listing and/or considering any site or location other than Yucca Mountain as a possible location for a high level nuclear waste repository, or any alternative technology to deep geologic disposal.
- S. Any document analyzing the effect of the development of a repository at Yucca Mountain on the rights of users of water in the Armagosa ground-water basin in Nevada.
- 6. Any document enalyzing the health and safety implications to the people and environment of the transportation of spent fuel between locations where spent fuel is generated or stored and Yucca Mountain, Nevada, or any other site nominated for repository characterization on May 22, 1988, including, but not limited to:
- a. Any analysis of possible human error in the manufacture of spent fuel casks:
- b. Any analysis of the actual population density along all of any specific projected routes of travel:
- c. Any analysis of releases from any actual radioactuve material transportation incidents:
- d. Any analysis of the emergency response time in any actual radioactive materials transportation incident
- e. Any ectual accident data on any specific projected routes of travel:
- L Any calculations or projections on the probabilities of accidents on any specific projected routes of travel:
- g. Any data on the physical properties or containment capabilities of spent fuel casks which have been used or which are projected to be used at any hypothetical or actual projected repository:
- Any analysis of modeling of the containment capabilities of spent fuel casks under a stress scenario;
- I. Any analysis or comparison of spent fuel casks projected to be used against the spent fuel cask certification standards of the Nuclear Regulatory Commission:

- j. Any analysis of the containment capabilities of spent aid casks containing spent first which has been burned up over an extended period.
- 7. Any document ensigning or companing Yucca Momnam, Neveda. with any other site in the same seony draiogic setting.
- & Any document relating to potential interference or incompatibility between a Yucca Mountain, Nevada, high-level nuclear waste repository and atomic energy activities at the Nevada Test Site and Nellis Airforce base.
- 9. Any document related to the land status, use or ownership of Yucca Mountain, Nevada.
- 10. Any document considering or analyzing the attributes or detriments of any engineered barner upon the radionuclide isolation capability of Yucca Mountain, Nevada, or any other site considered.
- 11. Any document evaluating the effect of extended fuel burn-up on Yucca Mountain. Nevada's adequacy as a repository site for disposal of spent fuel or upon the design of any such theoretical repository.
- 12 Any document enalyzing or investigating the potential for discharge or radionuclides into the Death Valley National Monument
- 13. Any document analyzing the recharge of the underlying saturated zone or the hydroconductivity of the unsaturated some at Yucca Mountain.
- 14. Any document containing any data or analysis of volcanism in the geologic setting of which Yucca Mountain is a PATI.
- 15. Any document containing any data for analysis of tectonic events at Yocca Mountain, or pertaining to the tectonic framework of the Yucca Mountain area or any document containing any data or analysis of faults with or without surface expression to the area of Yucca Mountain.
- 16. Any document containing instructions or other limitations on the acope of work to be performed by Department of Energy personnel or contractor's personnel
- 17. Any document pertaining to prevention or control of human intrusion at the Yucca Monatain me.

111. Specific Topics - 440

- 1. The Site
- A. Location. General Appearance and Terrain, and Present Use
- B Geologic Conditions
- 2. Strengraphy and volcanic history of they Yucca Mountain area
- a. Caldera evolution and genesis of ash flows
- b. Timber Mountain Tull

- c. Painthrush Tull
- d. Tuffscrous bods of Calco Hills
- Creter Flat Tuff
- Older tuffs
- Sedimentary mit
- Berein
- 2. Serveture
- 1 Seismony
- 4. Energy and mineral resources
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- b. Metala
- c Nonmetale
- S. Palsonneogy
- 4. Mineralology
- J. Geometricopy
- & Tectobics
- a. Faulus
- ·b. Stress
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- Voicenam
- C. Hydrologic Conditions
- 1. Surface water
- 2 Ground water A. Cround WALE SOVER
- b. Ground water quality
- 3. Present and projected water use up the
- Groundwater resources
- 5 Cimetology
- & Metearology
- D. Geochemistry
- 1. Rock chemistry of the overlying and underiyaas bost untu
- Water chemitry of unastreamed or assured ad acces
- 3. Alteration
- 4. Retardation and transport
- E. Environmental Setting
- 1. Land vse
- a. Federal use
- 6. Agnositeral
- L Crazing land
- & Cropiand
- C Mining
- d Recreation Private and commercial development
- 2. Terrestral and aquatic ecosystems
- a. Terrestral vegetabon
- i Larres-Ambrone
- ii. Larres-Ephedra or Larres-Lygnus
- Gi Coleppyne
- iv. Mixed transition
- v. Grassland-burn site
- b. Terresmai widlife
- i. Mammaia
- fi. Birde
- ili. Reptiles
- c. Special-interest species
- d Aqueuc ecceyereme
- 3. Air quality and weather conditions: Air evelity
- 4. Noise
- & Aesthetic resources
- 6. Archaeological cultural and historical re-A DILPORA
- 7. Radiological background
- a. Monitoring progress
- b. Dose assessment
- F. Transportation
- Highway infrastructure and current use
- Rethroad infrastructure and current use
- 12. Retiroed statements.

 G. Socioeconomic Conditions
- 1. Economic conditions
- a. Nye County b. Clark County

- C Litaria Count
- d. Methodelogy
- 2. Population density and destribution
- s. Populations of the State of Nevada
- b. Population of Nye County
- c Population of Clark County
- d. Populausa of Lincoln County
- 3 Commenty services
- a. Housing
- b. Education
- C Water supply
- & Waste-water trainent
- e. Solid waste
- L EASTER STANSON
- g. Public safety services
- Medical and social services
- Library technos
- I Parks and recreation
- L Social conditions
- a. Existing somai organization and structure
- L Rural social organization and moral atruc-
- ti. Social organization and structure to urban Clark County
- b Culture and Mestyle
- L Rural culture
- is Urban cuinere
- c Community attributes
- d. Attitudes and percepuose toward the re-DOGSTOFY
- 5. Fiscal and governmental structure
- 2 Expected Effects of the Site Characteriza-DOD ACTIVITIES
- A. Site Charactersation Activities
- 1. Field studies
- a Exploratory drilling
- b. Geophysical surveys
- e. Geologic mapping
- d. Standard operating proctions for reclamabon of areas disturbed by field studies
- e. trenching
- 2 Exploretory shaft facility
- a. Surface facilities
- b. Exploratory shaft and underground workings
- a Secondary egress shaft
- d. Exploretory shaft testing program
- e. Final disposition
- f. Standard operating procuess that would minimize potential environmental damage
- 3. Other studies
- a. Geodebt surveys
- b. Honzonial core drilling
- c. Studies of past hydrologic conditions
- d. Studies of tectonics, seisminty, and vol-
- e. Studies of seismittity induced by wespons lesting
- f. Field experiments in G-Tunnel Socilities
- Laboratory studies
- & Waste persinge design, testing, and analy-
- B. Expected Effects of Site Characterization
- L Expensed effects on the environment
- a. Geology, hydrology, land use and surface
- L. Geology
- E. Hydrology
- iii. Land nee
- iv. Surface soils
- b. Ecosystems
- c Air quality d. Noise
- e. Aesthetics

- f. Archaeological, cultural, and historical re-
- 2 Socioeconomic and transportation conditions.
 - a. Economic conditions
 - L Employment
 - 11. Matemais
 - b. Population density and distribution
 - c Community services
 - d. Social conditions
 - e. Fucai and governmental structure
 - f. Transportation
 - 3. Worker safety
 - 4. Irreversible and irretnevable commitment ef resources
 - C. Alternative Site Characteristics Activi-
 - 3. Remonal and Local Effects of Locating e Repository at the Site
 - A. The Repository
 - 1. Construction
 - a. The surface facilities
 - b. Access to the subsurface
 - c. The subsurface facilities
 - d. Other construction
 - 1. Access route
 - is. Rastroad
 - iii. Mined rock bandling and storage facili-
 - iv. Shafts and other facilities
 - e. Unbues
 - 2 Operations
 - a. Empiacement phase
 - L Waste receipt
 - it. Waste empiacement
 - b. Caretaker phase
 - 3. Remevability
 - 4. Decommissioning and closure
 - 3. Schedule and labor force
 - 4. Material and resource requirements
 - B. Expected Effects on the Physical Environment
 - 1. Geologic impacts
 - 2 Hydrologic impacts
 - 3. Land use
 - 4 Ecosystems

 - 5. An quality ____ a. Ambient an quality regulations
 - b. Construction
 - c Operations
 - d. Decompissioning and closure
 - & Noise
 - a. Construction
 - b. Operations
 - E. Decommissioning and closure
 - 7. Assthetic resources
 - A Archaeological cultural and historical re-**ABUFERS**
 - 8. Radiological effects
 - a. Construction
 - b. Operation
 - 1. Worker exposure during normal operation
 - ii. Public exposure during normal operation iii. Accidental exposure during operation

 - C. Expected Effects of Transportation Activi-
 - 1. Transportation of people and materials
 - a. Highway unpacts
 - i. Construction
 - ii. Operations
 - an. Decommissioning
 - b. Railroad impacts
 - 2 Transportation of aucleur wastes
 - a. Shipment and touting nuclear wests shipments

- L National shipment and revens
- U. Reponsi shipment and routing
- b Rediological unperu
- L. National unpacts
- is Regional impacts
- in. Maximally exposed individual impacts
- c. Nonrediological unpacu
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- i. National risk summery
- L. Reposal not summary
- e. Coes of nuclear waste transportation
- f. Emergency response
- D. Expected Effects as Socioeconomic Con-عدودنك
- 1. Economic conditions
- Labor
- b. Materials and resources
- c Cost
- d locome
- Land use
- f. Tourse
- 2. Population density and distribution
- 1. Community services
- a. Housing
- Education
- C Water supply
- Waste-water treatment
- Public safety services
- Medical services g. Transportation
- Social conditions
- s. Social structure and social organization
- i. Standard effects on social structure and social organization
- ii. Special effects on social structure and social organization
- b. Culture and lifestyle
- & Attitudes and perceptions
- 6. Fiscal conditions and government struc-
- 4. Suitability of the Yucca Mountain Site for Site Characterization and for Development as a Repository
- A. Suitability of the Yucca Mountain Site for Development as a Repository: Evaluation Against the Guidelines Tast Do Not Require Site Characteristics
- 1. Ťechnical guidelines
- a. Posiciosure site ownership and control
- L Data relevant to the evaluation
- ii. Favorable condition
- iii. Potentially adverse condition
- iv. Evaluation and conclusion for the qualifying condition on the postclosure site ewaership and control guidelines
- b. Population density and distribution
- L Data relevant to the evaluation
- ii. Favorable condition
- III. Potentially adverse condition
- iv. Disqualifying condition
- v. Evaluation and conclusion for the qualifying condition on the population density and distribution guideline
- c. Preciosure site ownership and control
- L. Data relevant to the evaluation
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- iii. Potentially adverse condition
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- d Meleorology
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- iii. Potentially adverse conditions
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- L Environmental quality
- i. Data relevant to the evaluation
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- iii. Potentially adverse conditions
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- v. Evaluation and conclusion for the qualitying condition on the environmental quality guidelines
- 1. Socioeconomic impacts
- L Data relevant to the evaluation
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- L. Favorable conditions
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- a. Preciosure system: rediclopical safety
- L Data relevant to the evaluation ii. Evaluation of the Yucca Mountain site tii. Conclusion for the qualifying condition on the precioeure system quideline radiolop-
- cal safety b. Precioeure system: environment socies-
- conomics, and transportation
- L Data relevant to the evaluation ti. Evaluation of the Yucca Mountain site iii. Conclusion for the qualifying condition on the preciosure system guideline environ-
- ment, someconomics, and transportation
- 3. Postciosure technical
- a. Geohydrology
- L Data relevant to the evaluation
- ii. Favorable conditions
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- b. Geochemistry
- L Data relevant to the evaluation
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- iii. Potentially adverse conditions iv. Evaluation and conclusion for the qualify ing condition on the postclosure geochem
- letry guideline v. Plans for site characterization
- e. Rock characteristics
- L Data relevant to the evaluation ii. Favorable conditions
- iii. Potennally adverse conditions iv. Evaluation and conclusion for the qualify ing conditions on the postciosure roc
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- w. Evaluation and conclusion for the qualifymy condition on the posiciosure human interference and natural resources technicai guideline
- 4. Postcioswe system
- a. Evaluation of the Yama Mountain Site
- L Quantitative analysis
- à Qualitative analysis
- b Summary and conclusion for the qualifying combines on the postulosure system mudelme
- S. Preciosure technical
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- i. Data relevem to the evaluation
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- 4. Data relevant to the evaluation
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- iv. Disqualifying condition
- v. Evaluation and conclusion for the qualifying condition on the posiciosare tectorace معناعة مح
- 4. Ease and cost of siting construction oper-Ation, and classes

- a. Once subsystem to the evaluation
- è Contrato
- c. Constitutions for the qualifying extra tree has aperature and closure guideline
- 7. Conclusion regarding semistrative of the Trosa Mountain Site for the characteristic Les
- B. Performance Amalyses
- 1. Precionare reducionical salety expensions
- Precionire militation protession standards
- b. Methods for preciouse remotopical as--
- i Radiological assesses of construction
- k. Radiological assessment of normal opera bone
- tic Radiological assessment of socidental re-**Description**
- 2. Preliminary analysis of postclosure purformance
- a. Subevetem description
- I. Engineered barrier enbrystess
- ii The natural burner subsystem
- b. Preliminary performance analyses of the major components of the system
- 2. The waste package lifetime
- is Release rate from the emposered barrier subsystem
- c Preliminary eyetem performance descripbon and ensigns
- d Companions with regulatory performance CONTROL
- Preliminary evaluation of disruptive CHESTE CERTIFICATE SAFETY PROCESSES
- f Conclusions
- S. Tannanurtation
- A. Regulations Related to Safeguards
- 1. Safeguarda
- Conclusion
- B. Peckegnge
- Packaging design, tertiag, and emplysis
- Types of packaging
- Soens fuel
- b. Casks for defense high-level waste and West Valley high-level waste
- c Casks for use from an MRS to the reposi-
- 3 Possible future developments
- Mode-specific regulations
- b Overweight truck casks
- c. Red consolidation
- d. Advanced bandling concepts
- e. Combination storage/shipping casks
- C. Potential Hazards of Transportation
- 1. Peterral comessences to as individual exposed to a maximum extent
- a. Normal transport
- b. Accidente
- 2. Potential consequences to a large populades áres sery severe tasasportation accidenta
- 1. Link assessment

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- a. Outline of method for estimating popula-Con mike
- b. Computational models and methods for population staks Changes to the enalytical models and
- methods for population risks Transportation scenarios evaluated for
- e. Assumption about westes
- L'Operational considerations for use in sisk علدوزعمه

- g Valum for factors associat to extensive population asia
- Results of population that analyses
- Lincorteinpas
- 4. Risks autocasted with defective cash construction, but of grating esperance, mad-COURSE MEMORANCE and SURAM OTTOP
- D. Cost Analysis
- 1. Outlies method
- Anusphane
- 3. Modele
- Cort anumetes
- Limitations of results
- Barge Transport to Repossibilities
- F. Effect of a Monitored Retrievable Storage Facility on Transportation Estimates
- G. Effect of At-Reactor Red Consolidation on Treasportation Estimates
- Criteria for Applying Transportation Cuidalme ,
- 1. DOE Responsibilities for Transportation Serry
- 1. Presenticanos
- 2. Energeacy response
- 3. Insurance coverage for transportation ac-ದರ್ಷಣ
- Modal Miz
- 1. Trein shipments
- a. Ordinary
- b. Deducated train 2 Truck show
- a Legal weight
- b. Overweekt

Environmental Impact: Categorical Exclusies

The NRC has determined that this final rule is the type of action described in categorical exclusion 10 CFR \$1_22(c)(1). Therefore, neither an environmental impact statement nor an environmental assessment has been prepared for this final rule.

Paperwork Reduction Act Statement

This rule does not contain information collection requirements that are subject to the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.).

Regulatory Apalysis

The DOE analysis of the costs and benefits of the LSS (U.S. Department of Energy, "Licensing Sepport System Benefit-Cost Analysis" July, 1988) and companion DOE reports ("Preliminary Needs Analysis:" "Preliminary Data Scope Analysis:" and "Conceptual Design Analysis:") are available for inspection in the NRC Public Document Room. 2120 L Street NW., Washington. DC. Single copies may be obtained from Francis X. Cameron, Office of General Counsel U.S. Nuclear Regulatory Commission, Washington DC, 20555: Telephone: (301)-402-1823.

Regulatory Flexibility Analysis

in accordance with the Regulatory Flexibility Act of 1980 (5 U.S.C. 805(b)).

PANEL'S SPECIFIC COMMENTS

A - Draft Regulatory Guide

- 1. On page 1, there should be a statement of position for excluding transportation information from the LSS in addition to the current statement of position for excluding environmental information.
- 2. Since the regulatory guide is an informative document, it should contain the scope of the LSS document submission requirements including the exclusions provided in 10 CFR 2.1005 and the provisions for claims of privilege in 10 CFR 2.1006.

B - Enclosure 3 - Disposition of the Interim Topical Guidelines

- 1. Delete phrase "by all parties to the negotiated rulemaking" in first paragraph.
- 2. Use full statement of the discovery standard rather than shorthand statement of information that is "relevant to the licensing proceeding" in second paragraph.
- 3. In discussion relating to excluding environmental information, address the issues of how and who determines now, about 10 years in advance, what environmental information pertaining to the Department of Energy's EIS is or is not necessary for the NRC's decision to adopt or not to adopt the EIS.
- 4. Responses to Questions 4 and 7 do not address the concern that documents related to alternative sites and alternative technologies might have within them information that was relevant to the technology for Yucca Mountain, and the Yucca Mountain site, even though information in those documents relative to other sites or other technologies wouldn't be relevant.
- 5. Response to Question 11 requires grammatical clarification.