WCOutreachCEm Resource

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Sent: Thursday, February 16, 2012 7:03 PM

To: WCOutreach Resource

Cc: Jo(e) Ziegler; Michael Voegele; Gary Hollis; Daniel Schinhofen; Lewis Lacy

Subject: Nye County Nevada Waste Confidence Comments **Attachments:** Nye County Nevada Waste Confidence Comments.pdf

Attached are comments from the Nye County, Nevada, Nuclear Waste Repository Project Office regarding the NRC draft report, "Background and Preliminary Assumptions for an Environmental Impact Statement – Long-Term Waste Confidence Update." The comments are divided into two parts, 1) Overarching Comments and 2) Supporting Information and Detailed Comments. The overarching comments are included in this e-mail below, as well as in the attachment.

- 1. The concept of extended storage for hundreds of years ignores current Federal policy and law as defined in the Nuclear Waste Policy Act (NWPA). The NWPA prohibits construction of an interim storage facility before the first geological repository is built. Further, the site selection for any interim storage facility must await resolution of the current court action regarding NRC licensing of Yucca Mountain. None of the proposed scenarios in the NRC draft report include SNF disposal in a repository until after long-term storage for hundreds of years. On one hand this document cites every reason to believe continued governmental controls for hundreds of years (a key assumption of the analysis) and on the other, it assumes Federal law will continue to be willfully violated. This is hardly a **confidence building** exercise. The fact that the Commission sees a need for this exercise implies we will not have a repository in the foreseeable future if left up to the Commission and that the Commission is willing to substitute its own policy in place of one developed by Congress.
- 2. The Commission's decision to develop an EIS evaluating the environmental impacts of extended storage and transportation of SNF has little connection to "Waste Confidence" as has been previously defined. This document cites the history of the waste confidence process stemming from a 1979 decision by the U.S. Court of Appeals for the District of Columbia Circuit (in Minnesota v. NRC). It notes that the court "... directed the NRC to determine whether a disposal solution for spent fuel would be available ..." This document in no way does that, but instead assumes disposal will not be available for hundreds of years. There have been three waste confidence decisions to date the first two had to be modified because the confidence the Commission had regarding SNF disposal was not fulfilled. Each waste confidence decision had several findings. Finding 2 regarding the disposal of SNF has been updated with each change and now has been modified to remove the time frame a repository will be available and simply state it will be available "when necessary." The action contemplated by this document indicates that the Commission and NRC staff believe "when necessary" may be hundreds of years into the future. If so, the concept of waste confidence coupled with temporary storage (hundreds of years does not sound temporary) is in jeopardy.
- 3. Even if this exercise made sense, it is not clear why an EIS was not required for the first three waste confidence decisions, but is now required for a longer term decision. The concept of considering the potential environmental impacts for hundreds of years of long-term storage is not possible without many speculative assumptions about future society. It appears that the proposed action for the upcoming EIS is

to modify the waste confidence decision that was just recently issued. In the public meetings on this document, it was stated by NRC staff that one reason this was taking place was so the NRC would not have to revisit the waste confidence decision every 10 years or so.

Currently there is a waste confidence decision that makes NEPA analysis for individual licensees not necessary until at least the middle of this century, but a NEPA analysis for long term storage using assumptions about institutional controls for hundreds of years into the future is necessary according to this document. This makes no sense. Nye County urges the Commission to abandon the proposed EIS.

- 4. Relooking at waste confidence at least every decade makes sense at least until this country can show that a national repository program can be implemented. Also, once an assumption is made that ongoing regulation and management of SNF occurs as it exists today there can be no other EIS conclusion other than such management is safe with no significant environmental impacts. The assumption contains the answer without the need for an EIS. The only thing in question is the technical detail regarding degradation of the fuel or its containers and what management actions are required to ensure safety. Such a technical program (noted by NRC staff to be planned in concurrence with the proposed EIS), will be useful in light of our government's inability to implement a repository program. Spending staff and public resources preparing an EIS that is driven by one unsubstantiated assumption (continued institutional controls for hundreds of years) is not useful and implies that it is reasonable to assume that a repository will not exist for hundreds of years.
- 5. The NRC issued Safety Evaluation Report and Technical Evaluation Reports on Yucca Mountain prove that confidence exists that, from a technical and scientific perspective, a safe repository could be developed in this country. However, there is no confidence that electoral politics in this country will allow a repository or interim storage facility to ever be built and operated. The only prompt path forward to solve the spent nuclear fuel (SNF) and high-level radioactive waste problem is to complete the Yucca Mountain licensing process and follow existing Federal law. Anything else amounts to political hand waving and posturing that only delays a real solution.

Thank you for the opportunity to comment. If you have any questions or wish to discuss the Nye County Comments, please do not hesitate to call me at 775-727-7727.



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Thank you,

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Federal Register Notice: 99FR99992

Comment Number: 27

Mail Envelope Properties (59D452C2818D404784F218A8C6CBB59D14254D84E8)

Subject: Nye County Nevada Waste Confidence Comments

 Sent Date:
 2/16/2012 7:03:23 PM

 Received Date:
 2/16/2012 7:03:00 PM

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Tracking Status: None

Post Office: 1mail.nye.local

Files Size Date & Time

MESSAGE 7385 2/16/2012 7:03:00 PM

image001.png 57379

Nye County Nevada Waste Confidence Comments.pdf 188511

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Priority:StandardReturn Notification:NoReply Requested:NoSensitivity:Normal

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Assumptions For an Environmental Impact Statement - Long-Term Waste Confidence Comments on U.S. NRC Draft Report for Comment, Background and Preliminary Nye County, Nevada Nuclear Waste Repository Project Office **Update, December 2011**

Overarching Comments

- place of one developed by Congress. to the Commission and that the Commission is willing to substitute its own policy in for this exercise implies we will not have a repository in the foreseeable future if left up analysis) and on the other, it assumes Federal law will continue to be willfully violated believe continued governmental controls for hundreds of years (a key assumption of the term storage for hundreds of years. On one hand this document cites every reason to scenarios in the NRC draft report include SNF disposal in a repository until after longcurrent court action regarding NRC licensing of Yucca Mountain. None of the proposed Further, the site selection for any interim storage facility must await resolution of the The concept of extended storage for hundreds of years ignores current Federal policy and law as defined in the Nuclear Waste Policy Act (NWPA). The NWPA prohibits This is hardly a confidence building exercise. The fact that the Commission sees a need construction of an interim storage facility before the first geological repository is built.
- 2. the Commission and NRC staff believe "when necessary" may be hundreds of years into be available "when necessary." The action contemplated by this document indicates that modified to remove the time frame a repository will be available and simply state it will disposal was not fulfilled. Each waste confidence decision had several findings. Finding 2 The Commission's decision to develop an EIS evaluating the environmental impacts of (hundreds of years does not sound temporary) is in jeopardy. the future. If so, the concept of waste confidence coupled with temporary storage regarding the disposal of SNF has been updated with each change and now has been two had to be modified because the confidence the Commission had regarding SNF hundreds of years. There have been three waste confidence decisions to date – the first document in no way does that, but instead assumes disposal will not be available for determine whether a disposal solution for spent fuel would be available . . ." This Columbia Circuit (in Minnesota v. NRC). It notes that the court " process stemming from a 1979 decision by the U.S. Court of Appeals for the District of as has been previously defined. This document cites the history of the waste confidence extended storage and transportation of SNF has little connection to "Waste Confidence" '. . . directed the NRC to
- ယ three waste confidence decisions, but is now required for a longer term decision. The Even if this exercise made sense, it is not clear why an EIS was not required for the first

to revisit the waste confidence decision every 10 years or so. decision that was just recently issued. In the public meetings on this document, it was stated by NRC staff that one reason this was taking place was so the NRC would not have appears that the proposed action for the upcoming EIS is to modify the waste confidence term storage is not possible without many speculative assumptions about future society. It concept of considering the potential environmental impacts for hundreds of years of long-

into the future is necessary according to this document. This makes no sense. Nye County urges the Commission to abandon the proposed EIS. long-term storage using assumptions about institutional controls for hundreds of years licensees not necessary until at least the middle of this century, but a NEPA analysis for Currently there is a waste confidence decision that makes NEPA analysis for individual

- 4. unsubstantiated assumption (continued institutional controls for hundreds of years) is not hundreds of years. useful and implies that it is reasonable to assume that a repository will not exist for program. Spending staff and public resources preparing an EIS that is driven by one EIS), will be useful in light of our government's inability to implement a repository technical program (noted by NRC staff to be planned in concurrence with the proposed fuel or its containers and what management actions are required to ensure safety. Such a for an EIS. The only thing in question is the technical detail regarding degradation of the significant environmental impacts. The assumption contains the answer without the need today - there can be no other EIS conclusion other than such management is safe with no assumption is made that ongoing regulation and management of SNF occurs as it exists Relooking at waste confidence at least every decade makes sense - at least until this country can show that a national repository program can be implemented. Also, once an
- S and posturing that only delays a real solution. process and follow existing Federal law. Anything else amounts to political hand waving and high-level radioactive waste problem is to complete the Yucca Mountain licensing be built and operated. The only prompt path forward to solve the spent nuclear fuel (SNF) electoral politics in this country will allow a repository or interim storage facility to ever safe repository could be developed in this country. However, there is no confidence that Mountain prove that confidence exists that, from a technical and scientific perspective, a The NRC issued Safety Evaluation Report and Technical Evaluation Reports on Yucca

Supporting Information and Detailed Comments

Executive Summary, first paragraph, first sentence - It is stated that the Commission "has explained that the recently enacted Waste Confidence rule and its basis, the Waste safely managed until it undergoes final disposition. Confidence decision, express the Commission's confidence that spent nuclear fuel can be Commission directed the staff to develop an environmental impact statement (EIS)." It is Confidence decision and rule . . ." The paragraph goes on to say that ". . . the directed agency staff to consider a long-term extension to the Commission's Waste

extending the waste confidence decision further. 60 years after the end of each reactor's operating life). This recognition indicates that the would be no need to consider either the technical or environmental consequences of spent nuclear fuel (SNF) within 60 years after reactor operating life. Otherwise, there Commission must really not have confidence that there will be a disposition path for decision for a period of up to 200 years after the current decision on confidence (at least This document, therefore, recognizes the need for extending the recent waste confidence

233 / Monday, December 6, 1999 / Rules and Regulations) can and will in due course be disposed of safely." (68006 Federal Register / Vol. 64, No. not continue to license reactors if it did not have reasonable confidence that the wastes century if the Commission has confidence that there is already a disposition path? The Commission noted in its denial of a petition for rulemaking in 1977 that it "...would Why is there a need to consider long-term storage of SNF beyond the middle of this

2 have the technical basis necessary to make such analysis useful. characterize high burn-up SNF, the analysis hundreds of years into the future will not that for present day SNF. Without a long term research program (at least decades) to up SNF. SNF and container integrity for high burn-up SNF may be significantly different attributes of SNF may not be indicative of the attributes and characteristics of high burn-Executive Summary, paragraph 2 - This paragraph states that an EIS will be developed in waste." It also says the analysis will be based on present-day attributes. Present day program similar to the current program; there would be no loss of controls over stored major assumption is that extended storage would be fully regulated under a regulatory accordance with NEPA and NRC's implementing requirements. It goes on to state that "a

confidence decision and rule. into the future when no EIS was required for the first three versions of the waste EIS. Additionally, it is unclear why an EIS is needed to cover a period hundreds of years confidence in a SNF disposition path. Such an administrative action would not require an confidence decision, but that is an administrative action only if there is already Later in the document it is stated that the proposed action is to extend the waste Federal action contemplated that could have a significant effect on the environment It is unclear why NRC needs to develop an EIS under NEPA unless there is a major

analysis, but considering the time frame involved, any assumption regarding institutional assumption assures that the results of any EIS will show no safety or environmental ensure the safety of SNF handling, storage and transport; the ongoing institutional control for no more than 100 years. Since it is recognized that current regulations and controls the EPA and NRC implementing regulations, institutional controls are assumed to exist controls would be speculative. Under the Nuclear Waste Policy Act (NWPA) and both makes a case with a few unsubstantiated sentences that loss of administrative controls control of the SNF for hundreds of years is extremely speculative. Later the document would be speculative and such an assumption is therefore not required for a NEPA Also, the assumption of an ongoing regulatory program and no loss of institutional

issues. The NRC staff has essentially assumed the results before the EIS process has even

the forthcoming EIS indicate that disposal will not exist for hundreds of years. Which is be available before the middle of this century, but the assumptions of this document and regarding disposal will be - the current waste confidence decision states that disposal will not be considered speculative by the staff. It's really not clear what the assumptions dismisses the requirements of Federal law in the NWPA. So dismissing Federal law must the NRC staff considers loss of institutional controls as speculative, but the staff include disposal in any of the scenarios until after the storage scenarios are complete. So This paragraph goes on to mention four scenarios that will be analyzed, but fails to

- ယ indicates that confidence is much less certain. disposal. The need for this document evaluating a period hundreds of years into the future confidence rule was to demonstrate that there would be a repository available for beyond the middle of this century. Furthermore, the intent of the original waste disposition path for SNF. Otherwise there would be no need to consider extended storage for such an analysis indicates that the Commission really has no confidence that there is a storage time contemplated in the 2010 Waste Confidence decision and rule)." The need address impacts of storing SNF "beyond a 120-year time frame (the maximum total Page 1, Section 1, paragraph 1 – It is stated that the Commission directed the staff to
- 4. Page 1, Section 1, paragraph 3 – It is stated that the NRC has not yet formally announced formal decision to prepare an EIS has already been made by the Commission development of an EIS stated earlier? The remainder of this document is written as if a procedures. Does this mean that the Commission may change its direction regarding the document is being developed outside the bounds of certain NRC NEPA process its intent to develop this proposed EIS under NEPA. Presumably this is because this

three versions of the waste confidence decision and rule. environmental and safety issues will exist. This has been documented in the Yucca environmental impacts. If such controls do not exist for hundreds of years, significant to cover a period hundreds of years into the future when no EIS was required for the first Mountain FEIS in its no-action analysis. Additionally, it is unclear why an EIS is needed that SNF can be handled, stored and transported safely and without significant the analysis meaningless. If institutional controls are assumed to exist, we already know for hundreds of years (whether they will exist or not) will be so speculative as to make It will be assumption based and any assumptions regarding societal institutional controls Nye County encourages the NRC to halt the idea of an extended storage EIS at this time.

S Page 2, Section 2, Paragraph 1 – The scope of the Blue Ribbon Commission's mandate is "promptly." Is the Commission and staff position that promptly may mean hundreds of BRC charter is to consider "all alternatives." The BRC final report takes no position on said to include "long-term storage and reprocessing." Actually the scope stated in the Yucca Mountain but notes that a repository needs to be developed in this country

the Commission sees the need to analyze environmental impacts for extended storage for likely mean there will be no repository for SNF for hundreds of years, if ever. Is that why no admission by the Federal government that failing to comply with the NWPA will years into the future? Other than the Commission direction to perform this study, there is

6. determination of no significant environmental impact." Section 51.23(a) states: titled, "Temporary storage of spent fuel after cessation of reactor operation—generic Page 2, Section 3, Paragraph 1 - This paragraph cites 10 CFR 51.23(a). 10 CFR 51.23 is

spent fuel generated in any reactor when necessary. will be available to dispose of the commercial high-level radioactive waste and there is reasonable assurance that sufficient mined geologic repository capacity independent spent fuel storage installations. Further, the Commission believes combination of storage in its spent fuel storage basin and at either onsite or offsite (which may include the term of a revised or renewed license) of that reactor in a environmental impacts for at least 60 years beyond the licensed life for operation generated in any reactor can be stored safely and without significant The Commission has made a generic determination that, if necessary, spent fuel

NRC has never issued a license for any facility for more than 40 years plus a 20 year determined that temporary can mean hundreds of years into the future - even though deals with "temporary storage," it is presumed that the Commission and NRC staff have "when necessary" might mean hundreds of years into the future. Because 10 CFR 51.23 doesn't mean forever, but the action being contemplated in this document indicates that The statements of consideration use confusing words to indicate that "when necessary" license extension.

- 7. waste confidence coupled with temporary storage is in jeopardy. believe "when necessary" may be hundreds of years into the future. If so, the concept of action contemplated by this document indicates that the Commission and NRC staff repository will be available and simply state it will be available "when necessary." The regarding the disposal of SNF has now been modified to remove the time frame a confidence the Commission had regarding SNF disposal was not fulfilled. Finding 2 waste confidence decisions to date - the first two had to be modified because the solution for spent fuel would be available . . ." This document in no way does that, but decision. It notes that the court "... directed the NRC to determine whether a disposal confidence process from a 1979 decision by the U.S. Court of Appeals for the District of Pages 2 and 3, Section 3, Paragraph 2 - This section cites the history of the waste instead assumes disposal will not be available for hundreds of years. There have been 3 Columbia Circuit (in Minnesota v. NRC) through the current 2010 waste confidence
- œ Page 3, Section 3, Last paragraph – This section states that waste confidence finding 1 and NRC staff show that a Yucca Mountain repository is technically feasibility and safe confirmed. It should be noted that all technical review and findings to date by both DOE that concludes that safe disposal of SNF in a geologic repository is feasible has been

- 9. Page 4, Section 4, Paragraph 2 - This first sentence of this paragraph states, "Because it for SNF will not be available for hundreds of years. NRC to create new Federal policy by assuming, contrary to Federal law, that a repository Federal law in the NWPA. The action proposed in this document is a further attempt by licensing of Yucca Mountain indicates otherwise. NRC deliberately chose not to follow for managing nuclear waste." Recent action by the NRC to first delay and then halt the is solely a regulatory agency, the NRC does not propose or promote specific uses or plans
- 10. Pages 4 and 5, Section 4, Paragraph 3 This paragraph discusses waste confidence and exist for that period because none of the considered scenarios include disposal during that hundreds of years into the future. The staff assumption is that disposal options may not otherwise. The Commission sees the need for an analysis of long-term SNF storage for storage. However, the existence of the actions considered in this document indicates renewed licenses do not need to assess the environmental impacts of post-licensed life cites the Commission's confidence in the safe management and ultimate disposal of SNF It goes on to say that because of that confidence the NEPA analyses of new licenses or
- 11. Page 5, Section 4, last paragraph This paragraph attempts to explain why an EIS was storage using assumptions about institutional controls for hundreds of years into the not necessary until at least the middle of this century, but a NEPA analysis for long-term every 10 years or so. So, a decision that makes NEPA analysis for individual licensees is taking place was so the NRC would not have to revisit the waste confidence decision the public meetings on this document, it was stated by NRC staff that one reason this was upcoming EIS is to modify the waste confidence decision that was just recently issued. In proposed consideration of long-term storage. It appears that the proposed action for the not necessary for any of the waste confidence decisions to date, but is necessary for the future is necessary. This makes no sense.

repository will not exist for hundreds of years. hundreds of years) is not useful and implies that it is reasonable to assume that a that is driven by one unsubstantiated assumption (continued institutional controls for to implement a repository program. Spending staff and public resources preparing an EIS concurrence with the proposed EIS), will be useful in light of our government's inability required to ensure safety. Such a technical program (noted by NRC staff to be planned in regarding degradation of the fuel or its containers and what management actions are significant environmental impacts. The only thing in question is technical details today - there can be no other EIS conclusion other than such management is safe with no assumption is made that ongoing regulation and management of SNF occurs as it exists country can show that a national repository program can be implemented. Also, once an Perhaps relooking at waste confidence every decade is not a bad idea – at least until this

12. Page 5, Section 5, Paragraph 1 – This paragraph purports to explain why and EIS is to its regulations." It goes on to say the EIS is necessary to adequately consider public necessary. It states, "... in some cases, the NRC develops an EIS for significant changes

repository will be available for hundreds of years? required for extending waste confidence for 60 years beyond reactor operations, but not operations. What was the test the Commission used to determine that no EIS was current waste confidence decision covers storage for at least 60 years after reactor further? Is the NRC proposing to extend storage for longer periods because it assumes no concerns about the potential impacts of the extended storage of SNF. However, the

- 13. Page 5, Section 5, Paragraph 2 This paragraph begins by stating, "The NRC's proposed years into the future. the future, if necessary. Hopefully, a repository will be available in less than hundreds of results are known, extending the waste confidence decision can be extended further into program studying the long-term integrity of SNF makes sense and should continue. As program would be wise before contemplating this EIS. An ongoing scientific research Perhaps waiting several decades to see if this country can implement a repository waste confidence to extend to hundreds of years in the future. Is this correct? If so, why? know what they are proposing to change it to. It appears that the proposal is to change completed will not include empirical evidence of the integrity of SNF that is hundreds of a repository for SNF. Scientific knowledge in ten years when the EIS is scheduled to be current national policy in the NWPA (and BRC recommendations) is to promptly develop by current circumstances including national policy and scientific knowledge. However, We are decades away from the time frame of the current waste confidence decision. years old. Before embarking on an EIS to change something, the NRC should at least determined that such a change is necessary. It is stated that any change will be informed and rule." Since it is a "proposed action," apparently the Commission has already action under NEPA is a change to the Commission's current Waste Confidence decision
- 14. Page 6, Section 6 This section discusses NEPA alternatives in this document that has planned over the EIS preparation period of the next decade. available for hundreds of years old SNF even after the research program that is said to be over the same period. It is also noted that empirical data on SNF integrity will not be been implemented for hundreds of years since institutional controls are assumed to exist year analysis period. It is not clear why the policy in Federal law is assumed not to have updates every 5 to 10 years. We have no specific comments on the individual storage alternative stated as continuing to review the Waste Confidence decision and rule for scenarios for up to 200 years beginning in the middle of this century and a no-action scenarios, but note that none of the scenarios assume a repository is available for the 200 been described as a non NEPA document. The alternatives are stated as four storage

If not, perhaps recognition of the need for perpetual storage will replace the current waste is developed, no further need to update the waste confidence decision will be necessary. several decades or a repository will prove impossible for the United States. If a repository years into the future. It is likely that either a repository will be developed in the next accurately predict the future of SNF and the availability of disposal options hundreds of decision further and further into the future. There is no possible study that could when a repository will be available is not good, as evidenced by the need to update the Perhaps more importantly, the Commission history of being able to accurately predict

storage is safe and environmentally acceptable. hundreds of years. The only possible outcome with that assumption is that long-term with the starting assumption of continued regulatory and institutional controls for confidence strategy. Either way, an EIS at this time is a waste of resources - especially

in the nuclear waste fund created by the NWPA. hence. The problem needs to be solved with a repository now, with the money available the future. No one knows the economic scenario this country will be in hundreds of years safety and environmental consequences of long term storage, it is unconscionable for the created the nuclear waste problem is the one to deal with the problem. Regardless of the Federal government to push the ongoing burden of nuclear waste many generations into Commission is violating an underlying principal of the NWPA - that the generation that Lastly, by proposing an action for long-term storage for hundreds of years, the

15. Pages 6 and 7, Section 7 - This section discusses one overriding assumption, "that the operating facilities and licensing activities . . ." It also discusses the quantifiable impacts oversight will continue to ensure operational safety, consistent with NRC experience with storage of spent nuclear fuel will continue to be a regulated activity in the future . . . of long-term storage.

essentially assumed by the overriding assumption of ongoing institutional controls for an environmental impact statement. Both safety and environmental protection are hundreds of years is speculative. Further, once that assumption is made, there is no need As noted in previous comments, the assumption of ongoing institutional controls for

also to a scenario assuming direct shipment and disposal at a repository. comparison should be made for each factor not only to the other proposed scenarios, but disposal) for each of the proposed scenarios described in this document. Then a and additional cost (including Federal government legal liability for not implementing additional repackaging required, likelihood of impacts from severe natural phenomena the difference in security forces required, radiation exposure, additional transportation, DOE's analysis. What might be useful, although not requiring an EIS, is an analysis of NRC review of the DOE FEIS indicated there was no issue with adopting that part of Federal government in the DOE Yucca Mountain FEIS no-action alternative analysis. As far as quantifying the impacts of long-term storage, that has already been done by the

NWTRB web site). at a January 9, 2012 Nuclear Waste Technical Review Board meeting (available on concepts that should be considered is available in a presentation made by Ernest Hardin allowed gradually sloped access ramps. More information regarding generic repository packages in repositories proposed in Sweden or Finland. The large packages for the Yucca Mountain repository are unique to the geologic setting of Yucca Mountain that Yucca Mountain would likely have to be much smaller – similar in size to the waste In this analysis, it should be recognized that container sizes for a repository other than

implementer defined in any revised policy should develop the technical basis for such an would not likely be useful once a disposal concept is selected. Therefore, the proposed linkage between storage, transportation, packaging, and disposal concepts Federal policy decision to propose such an action. Such an EIS before there was a makers) if they wish to consider alternatives to prompt development of a repository. Any Such a long-term storage study might provide useful information for Congress (policy EIS as is done with almost all other NRC licensing actions. EIS required to implement any future scenario should be done only after there is a

- 16. Section 7, Page 8, Paragraph 2 This paragraph discusses how radiation exposure will be not now possible. will not have to be reevaluated once a specific repository disposal concept is selected is in the future. An EIS is premature at this time because defining a particular scenario that long packages are in transit, and other sensitivity factors might be useful to policy makers with various assumptions, vulnerability to terrorist activity based on how many and how depending on transportation vehicle miles, various package sizes, probability of accidents package sizes assumed. A technical study that considers radiation exposure differences within each scenario the vehicle miles of transportation required will depend on the instance, transportation requirements will be different for each scenario. Additionally, the probability of accidents that could result in public exposure could be performed. For studied and documented extensively. Because many factors are unknown at this time, it analyzed. It should be noted that exposure from handling and transporting SNF has been EIS is premature, but a technical study showing the differences in radiation exposure and will be impossible to define a scenario that will actually be implemented. Therefore, an
- 17. Section 7, Pages 8 and 9, Paragraph 4 This paragraph begins a discussion of BRC more handling, and more repackaging will result in more radiation exposure, higher risk impacts will this analysis have any value. We already know that more transportation, scenario at varying times. Only in this way will it become obvious what the impacts and of years from now. To be useful at all, geologic disposal should be incorporated into each geologic disposal. Apparently, endpoint means after the scenarios are complete hundreds endpoint for all scenarios evaluated." It's interesting that none of the scenarios include recommendations and how the BRC recommendations will help define scenarios to be for transportation accidents, and more cost. costs are of varying degrees of repository delays. Only if the NRC staff can quantify paragraph of page 9, by stating, ". . . the EIS will include geologic disposal as the consider hundreds of years to be prompt? The discussion continues in the first full New Permanent Geologic Disposal Facility." Do the Commission and NRC staff now hundreds of years when the BRC clearly recommended "Prompt Efforts to Develop a evaluated. It is unclear why the scenarios in this document do not include disposal for
- 18. Page 9, Section 8.1, Assumption 1 The assumption is that 20% of electricity produced minimum, it should be assumed that nuclear generation in States that have a moratorium power as a percentage of supply has been decreasing in this country for some time. At a in this country will be from nuclear power. There is no basis for this assumption. Nuclear

increase, but will be eliminated over the time of this study. on new nuclear generation until there is a disposal facility to receive SNF will not

- 19. Page 10, Section 8.1, Assumption 1 This assumption deals with transportation impacts. made for each scenario including a direct shipment to a repository scenario. Without such such as radiation exposure, terrorist risk, and increased handling operations should be both quantitative and qualitative, of transportation impacts from each scenario of factors comparisons, this study can be of no use to policy makers or anyone else. to the other scenarios, but to a direct shipment to a repository scenario. An evaluation, storage. Total vehicle miles for each scenario should be calculated and compared not only considered, not one huge transportation campaign at the end of hundreds of years of transportation to a repository at varying times throughout the period of study should be To be thorough, transportation of packages of various sizes should be included. Also,
- 20. Page 11, Section 8.1, Assumption 5 This assumption is that SNF will be managed handling degraded fuel exist at every long-term storage location. the extent and difficulty of repackaging will be based on unproven assumptions, at best be no empirical evidence regarding SNF degradation over hundreds of years. Therefore, technical studies planned concurrently with the preparation of this document, there will need for major repackaging efforts for the SNF over the hundreds of years of analysis. environmental issues will be identified. It is good that staff has identified the possible safely as it is today. This assumption dictates the conclusion that no significant safety or At a minimum, the analysis should assume repackaging facilities with the capability of The extent and difficulty of required repackaging, however, is unknown. Even with

require smaller waste packages and therefore require extensive repackaging at storage requirements before shipment to the repository. Other repository concepts will likely container as proposed for Yucca Mountain would have minimal impact and repackaging repository concepts. For instance, storage in a transportation, aging, and disposal (TAD) not take into consideration repackaging requirements that will vary depending on maintaining the waste container that are dependent on the type of ultimate disposal does locations or the repository site. The statement that NRC staff are unaware of any significant impacts associated with

21. Pages 11 and 12, Section 8.1, Assumption 6 – This assumption says that regulatory within hundreds of years. Many recent examples exist including the collapse of the Soviet deficits in the United States that continue to grow exponentially. Union; near financial collapse of several European governments; and annual budget assumption unsupportable. World history has shown that governments often come and go foreseeable. The time period involved in the proposed study makes the arguments in this are "reasonably foreseeable" and loss of institutional controls is not reasonably argument without basis. It is stated that NEPA only requires evaluation of impacts that paragraphs on page 12 attempt to justify this assumption, but are only an emotional basically the continuation of institutional controls as they exist today. The first two controls and government intervention will be available hundreds of years into the future -

of institutional controls could be so severe, they should be considered in your analysis dose to any member of the public because repository regulations do not allow the loss of institutional controls at a repository are already limited to negligible radiation and compared to the effects of a promptly developed repository. Of course the effects of assumption of continued institutional controls. consequences would be much greater than from a repository. Because the effects of loss Surely the probability of loss of institutional controls is much greater than that and the with an annual probability of between one and three million per year for this study. evaluation be considered for radioactive waste repositories. That would equate to events that initiating events with a probability of one in ten thousand over the period of understanding and handling of radiation risk. Those recently enacted regulations require presented that there will always be continuous improvement in our society's institutional controls and the adverse safety and environmental impacts that could occur. reasonable. At a minimum this study should include an analysis of the effects of loss of problem deal with it and not defer to future generations because the problem, if left unattended, could become insurmountable. Only a permanent near term solution was Current EPA and NRC risk based repository regulations are contrary to the argument Congress implemented the NWPA to ensure the people that caused the nuclear waste

- 22. Page 12, Section 8.1, Assumption 7- This assumption is that the study will assess be ignored in this assumption. concerning another topic, about only evaluating what is "reasonably foreseeable" seem to government program in support of reprocessing. The arguments made on this very page, to be favorable compared to the manufacture of fresh nuclear fuel; and there is no current made no such recommendation; economics of reprocessing are not and are not projected reprocessing in the United States will occur over the next few hundred years. The BRC impacts of storing and transporting reprocessing wastes. There is no indication that
- 23. Page 12, Section 8.1, Assumption 8 This assumption says that the study will evaluate shipment to a repository. Scenarios will substantially higher SNF handling and comparison of the probability of accidents for each scenario including a scenario of direct such scenarios over the period of evaluation. The analysis should include a careful documented source is the Yucca Mountain FEIS. What will change is the probability of already been done and will not change in the scenarios for this evaluation. One range of accident scenarios involving storage and transportation. These analyses have transportation requirements will certainly involve proportionally greater risk than others
- 24. Page 13, Section 8.1, Assumption 9 This assumption says impacts of terrorism will be proportionally greater risk than others. Also, the greater the number and size of storage SNF handling, storage, and transportation requirements will certainly involve including a scenario of direct shipment to a repository. Scenarios will substantially higher should include a careful comparison of the probability of accidents for each scenario will change is the probability of terrorism over the period of evaluation. The analysis scenarios for this evaluation. One documented source is the Yucca Mountain FEIS. What considered. Again, such analyses have already been performed and will not change in the locations, the greater the total vulnerability to terrorist acts.

- 25. Pages 14 and 15, Section 8.2, All Scenarios None of the scenarios include prompt of years is the only reasonably foreseeable alternative. it appears that the NRC staff is saying that lack of repository development for hundreds scenario should be developed considering various repository available timing. Otherwise, repository development and operation which is the policy of the United States. Each
- 26. Page 15, Section 8.2, Scenario 4 The reprocessing facility scenario should be deleted. should be followed by deleting this scenario. not and are not projected to be favorable compared to the manufacture of fresh nuclear arguments in this document about only evaluating what is "reasonably foreseeable" fuel; and there is no current government program in support of reprocessing. Previous hundred years. The BRC made no such recommendation; economics of reprocessing are There is no indication that reprocessing in the United States will occur over the next few
- 27. Page 16, Section 10 Extended storage research described in this section is one of the SNF for as long as it takes to have empirical evidence of aging phenomena. reactor. The program should extend well beyond 10 years and continue to cover aged understand the potential degradation of SNF between a few decades and 100 years out of current Commission position on waste confidence, such research is necessary to few things in this document that is necessary and makes sense. Notwithstanding the
- 28. Page 18, Section 12 This section discusses how the NRC staff will define "plausible safely in a way that protects the environment when a permanent solution exists. studies that are performed, there will only be real confidence that SNF will be handled perfect example of this. Regardless of the results of any technical and environmental changed or reconfirmed. Having to modify the first two waste confidence decisions are a reevaluation will require that the speculative societal assumptions will have to be either should plan on periodic reevaluation until a permanent waste solution exists. Each whether or not continued institutional controls are assumed. Lastly, the stated purpose of years. Not only should the NRC not avoid relooking at its waste confidence decision, it this EIS is to avoid having to reconsider the waste confidence decision every 5 to 10 any societal assumptions made in an EIS covering hundreds of years will be speculative First, the current waste confidence decision is adequate for the next few decades. Second, assumptions" for the proposed EIS. An EIS is premature at this time for several reasons.

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